

## Section 6

### Area, Geography, and Climate

Statistics in this section relate to area, climatologic, topographic, and hydrologic measurements of the United States. There are few official publications other than those showing area measurements (issued infrequently by the Bureau of the Census), which present area and geography statistics of national scope. However, many data are compiled for particular regions or for internal administrative purposes by such Federal Government agencies as the Geological Survey, the Coast and Geodetic Survey, and the Weather Bureau.

**Area.**—Area measurements in the United States began with measurements for the country as a whole and developed, as mapping progressed, to measurements for the States.

The annual report of the U.S. General Land Office for 1850 contained the first reference to the areas of the several States and Territories, although there was no indication of the method used in obtaining these measurements. Until 1881, the General Land Office was practically the sole source of information concerning the areas of the States and Territories.

In 1881, the Bureau of the Census, as a part of the 1880 Census of Population, laid the foundation for accurate and detailed area measurement in the United States. For the first time an account was given of the method and maps employed, the water bodies included, and the outer limits of the United States used as a basis for measurement. In 1940, the same Bureau, in its publication, *Areas of the United States: 1940*, presented the first basic measurement of the United States since its work in 1880. The data presented in that study cover the total land and water areas of the States, counties, cities, and minor civil divisions. For the 1950 and 1960 Censuses no comprehensive remeasurement of all areas was made, but adjustments in selected area figures were made for three principal reasons: (1) Changes in boundaries, (2) the development of water reservoirs, or (3) the improvement in maps from which area measurements are made.

**Geography.**—The Geological Survey, cooperating in some instances with State and local agencies, is responsible for topographic and geologic maps and for basic data concerning the quantity, quality, and movement of surface and ground water.

The Bureau of Land Management conducts cadastral surveys.

The Coast and Geodetic Survey has responsibility for coastal and geodetic surveys and measurement of certain physical phenomena. Authorized in 1807, this agency's original function was to survey and chart the coast of the United States and the outlying islands and fishing banks. In 1871, Congress authorized an extension of the geodetic surveys from coast to coast to provide the States with reference markers for the control of their topographic and geologic mapping and their boundary surveys, and to provide data for use by the Geological Survey and other agencies. Since 1927, the Coast and Geodetic Survey has also been in charge of preparing aeronautical charts for the United States and its outlying areas.

A civil mapping activity of the Corps of Engineers, the U.S. Lake Survey, was established in 1841. Its primary function is to furnish Great Lakes navigators with reliable charts and information regarding harbor facilities. It also maintains records of the fluctuating levels of the lakes, the flow through connecting rivers, and the precipitation over the lakes, and reports on all hydraulic problems relating to the Great Lakes.

**Air pollution.**—The Public Health Service first established an air sampling network in 1953. The Federal Air Pollution Research and Technical Assistance Act (PL 159, 84th Congress), under the provisions of which the present National Air Sampling Network was created, became effective in 1955. The Network's objectives are to determine the extent and nature of air pollution, to study trends in levels of atmospheric contaminants, and to investigate relationships between air pollution and socio-economic, geographic, topographic, and other factors. There are 250 sampling stations in the Network, 213 urban and 37 nonurban.

Data on radioactivity in the atmosphere have been collected since 1956 by the National Radiation Surveillance Network, established under the provisions of the Public Health Service Act (PL 410, 78th Congress). The National Air Sampling Network also measures beta-radioactivity of most of the particulate samples it collects.

**Climate.**—The Weather Bureau is responsible for essentially all meteorologic data and collects, processes, and publishes climatologic data. It maintains about 11,000 weather stations, of which nearly 3,000 produce autographic precipitation records, about 600 take automatic or hourly readings of a series of weather elements, and the remainder record one observation a day. There are few records in existence for stations before 1871 although some detailed records began in the 18th century.

Nearly all weather stations have been moved several times in their history. Consequently, the Weather Bureau uses "normal" values of temperature and precipitation for comparative purposes rather than long-term means which are derived from records taken at the different locations the stations may have had over the years.

Normal values of temperature and precipitation are based on records for the 30-year period 1931 to 1960. For stations having records for the entire 30 years from the same instrument site, monthly precipitation and temperature normals are the means of the monthly values for the 30 years; for temperature, the normal maximum and normal minimum values were used to obtain monthly normals. The annual normal temperature is obtained by dividing by 2 the sum of the annual normal maximum value and the annual normal minimum value of temperature.

For stations that did not have continuous records from the same instrument site for the entire 30 years, 1931 to 1960, the means have been adjusted to the record at the present site. In these adjustments, a "difference factor" was used for temperature and a "ratio factor" for precipitation. These factors were determined by parallel comparison, either between records at the actual station sites or through a second station that had a continuous record to compare against both sites for obtaining the resultant adjusting factors. Normals were thereafter obtained as outlined above.

This system of normals has three characteristics: (1) The 30-year period (1931 to 1960) adopted for the computations is consistent with the term of years accepted by the World Meteorological Organization for climatic normals; (2) where the station and exposure for records in a given locality have been changed, the whole record has been carefully studied and adjusted to the latest source of records and reports; (3) the normals for maximum and minimum temperatures are separately tabulated.

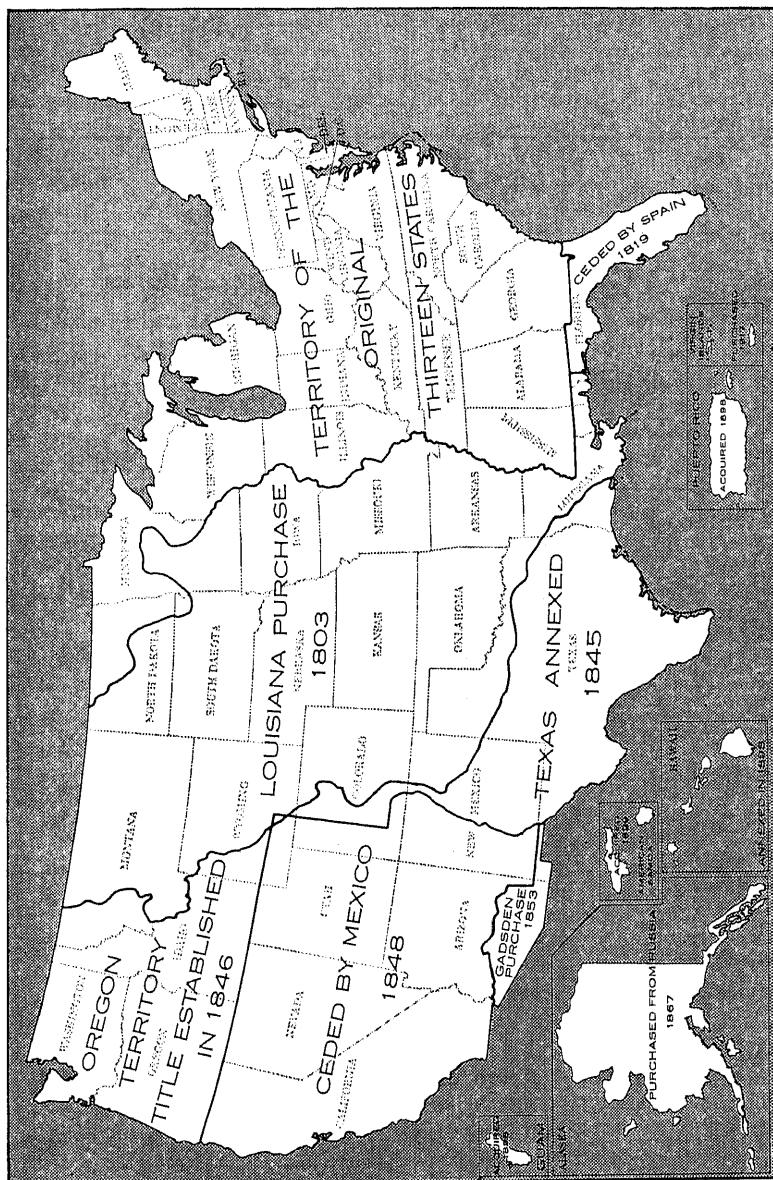
The degree-day normals are derived from the values for the monthly normal maximum and minimum temperatures, and computed from the standard base 65° F. The degree day has been defined as follows: "A unit, based upon temperature difference and time, used in estimating fuel consumption and specifying nominal heating load in winter. For any one day, when the mean temperature is less than 65° F., there exist as many degree days as there are Fahrenheit degrees difference in the temperature between the average temperature for the day and 65° F."

**Alaska and Hawaii.**—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface. "Conterminous area" refers to the United States excluding Alaska, Hawaii, and outlying areas.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XI. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER PRINCIPAL AREAS

[See table 224]



Source: Department of Commerce, Bureau of the Census.

## Area, Geography, and Climate

## No. 224. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER AREAS

[Boundaries of all territories listed under "United States" were indefinite, at least in part, at time of acquisition. Area figures shown here represent precise determinations of specific territories which have been marked upon maps, based upon interpretations of the several treaties of cession, which are necessarily debatable. These determinations were made by a committee consisting of representatives of various governmental agencies in 1912. Subsequently these figures were adjusted to bring them into agreement with remeasurements made in 1960. See also *Historical Statistics, Colonial Times to 1957*, series J 1-2.]

ACCESSION	Date	Gross area (land and water)	ACCESSION	Date	Gross area (land and water)
Total	1960	Sq. mi. 3,628,150	Other:		Sq. mi.
United States		3,615,211	The Philippines <sup>2</sup>	1898	115,600
Territory in 1790 <sup>1</sup>		888,811	Puerto Rico	3 1899	3,435
Louisiana Purchase	1803	827,192	Guam	4 1899	212
By treaty with Spain:			American Samoa	5 1900	76
Florida	1819	58,560	Canal Zone <sup>4</sup>	1904	553
Other areas	1819	13,443	Corn Islands <sup>7</sup>	1914	4
Texas	1845	300,144	Virgin Islands of the U.S.	1917	133
Oregon	1846	285,580	Trust Territory of the Pacific		
Mexican Cession	1848	529,017	Islands <sup>4</sup>	1947	8,484
Gadsden Purchase	1853	29,640	All other <sup>9</sup>		42
Alaska	1867	586,400			
Hawaii	1898	6,424			

<sup>1</sup> Includes that part of drainage basin of Red River of the North, south of 49th parallel, sometimes considered part of Louisiana Purchase.

<sup>2</sup> Not included in total. Ceded by Spain in 1898, the Philippines constituted a territorial possession of the United States from 1898 to 1946. Granted independence as of July 4, 1946, they then became the Republic of the Philippines.

<sup>3</sup> Ceded by Spain in 1898 and became Commonwealth of Puerto Rico by Act of Congress on July 25, 1952. See table 4.

<sup>4</sup> Acquired 1898; ratified 1899.

<sup>5</sup> Acquired 1899; ratified 1900.

<sup>6</sup> Under jurisdiction of United States in accordance with treaty of Nov. 18, 1903, with Republic of Panama.

<sup>7</sup> Leased (1914) from Republic of Nicaragua for 99 years.

<sup>8</sup> Under trusteeship. See table 4, footnote 16.

<sup>9</sup> Comprises following islands with gross areas as indicated: Midway (2), Wake (3), Palmyra (4), Canton and Enderbury (combined area, 27), Swan (1), Navassa (2), Baker, Howland, and Jarvis (combined area, 3), Johnston and Sand (combined area, less than 0.5), Kingman Reef, Quita Suelto Bank, Roncador Cay, and Serrano Bank (each less than 0.5), and other islands specified in table 4, footnote 9, for which area figures are not available.

Source: Department of Commerce, Bureau of the Census; reports and records.

## No. 225. COASTLINE OF THE UNITED STATES, BY STATES

[In statute miles]

STATE	General coastline <sup>1</sup>	Tidal shoreline <sup>2</sup>	STATE	General coastline <sup>1</sup>	Tidal shoreline <sup>2</sup>
United States	12,383	88,633	Atlantic coast—Continued		
Atlantic coast	2,069	23,673	South Carolina	187	2,876
Connecticut		618	Virginia	112	3,315
Delaware	28	381	Gulf coast	1,631	17,141
Florida	580	3,331	Alabama	53	607
Georgia	109	2,344	Florida	770	5,095
Maine	228	3,478	Louisiana	397	7,721
Maryland	31	3,190	Mississippi	44	359
Massachusetts	192	1,519	Texas	367	3,359
New Hampshire	13	131	Pacific coast	7,623	40,298
New Jersey	130	1,792	Alaska	5,580	31,383
New York	127	1,350	California	840	3,427
North Carolina	301	3,375	Hawaii	750	1,052
Pennsylvania		89	Oregon	296	1,410
Rhode Island	40	384	Washington	157	3,026
			Arctic coast, Alaska	1,060	2,521

<sup>1</sup> Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. Coastline of sounds and bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point.

<sup>2</sup> Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, sounds, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

Source: Department of Commerce, Coast and Geodetic Survey; *Coastline of the United States*, April 1, 1961.

## No. 226. AREA OF STATES AND OTHER AREAS: 1960

[Area in square miles. See also table 4]

STATE OR OTHER AREA	Capital	Year of admission to Statehood	AREA			
			Total	Rank order	Land <sup>1</sup>	Water <sup>2</sup>
			3,615,211	-----	3,548,974	66,237
United States						
New England						
Maine	Augusta	1820	66,608	63,126	3,482	
New Hampshire	Concord	3 1789	33,215	31,012	2,203	
Vermont	Montpelier	1791	9,304	9,014	290	
Massachusetts	Boston	3 1788	9,600	9,276	333	
Rhode Island	Providence	3 1790	8,257	7,867	300	
Connecticut	Hartford	3 1788	1,214	1,058	156	
Middle Atlantic			5,009	4,899	110	
New York	Albany	3 1788	102,745	100,467	2,278	
New Jersey	Trenton	3 1787	49,576	47,939	1,637	
Pennsylvania	Harrisburg	3 1787	7,836	7,521	315	
East North Central			45,333	45,007	326	
Ohio	Columbus	1803	41,222	39,811	3,472	
Indiana	Indianapolis	1816	36,291	36,185	106	
Illinois	Springfield	1818	36,400	35,930	470	
Michigan	Lansing	1837	58,216	57,019	1,197	
Wisconsin	Madison	1848	56,154	54,705	1,449	
West North Central			517,247	509,674	7,573	
Minnesota	St. Paul	1858	84,068	80,009	4,059	
Iowa	Des Moines	1846	56,290	56,032	258	
Missouri	Jefferson City	1821	69,686	69,138	548	
North Dakota	Bismarck	1889	70,665	69,457	1,208	
South Dakota	Pierre	1889	77,047	76,378	669	
Nebraska	Lincoln	1867	77,227	76,612	615	
Kansas	Topeka	1861	82,264	82,048	216	
South Atlantic			278,902	267,695	11,207	
Delaware	Dover	3 1787	2,057	1,978	79	
Maryland	Annapolis	3 1788	10,577	9,874	703	
Dist. of Columbia			69	61	8	
Virginia	Richmond	3 1788	40,815	39,888	977	
West Virginia	Charleston	1863	24,181	24,079	102	
North Carolina	Raleigh	3 1789	52,712	49,067	3,645	
South Carolina	Columbia	3 1788	31,055	30,272	783	
Georgia	Atlanta	3 1788	58,876	58,274	602	
Florida	Tallahassee	1845	58,560	54,252	4,308	
East South Central			181,964	179,908	2,056	
Kentucky	Frankfort	1792	40,305	39,863	532	
Tennessee	Nashville	1796	42,244	41,762	482	
Alabama	Montgomery	1819	51,609	51,060	549	
Mississippi	Jackson	1817	47,716	47,223	493	
West South Central			438,885	429,332	9,553	
Arkansas	Little Rock	1836	53,104	52,499	605	
Louisiana	Baton Rouge	1812	48,523	45,106	3,417	
Oklahoma	Oklahoma City	1907	69,919	68,887	1,032	
Texas	Austin	1845	267,339	262,840	4,499	
Mountain			863,887	856,951	6,936	
Montana	Helena	1889	147,138	145,736	1,402	
Idaho	Boise	1890	83,557	82,708	849	
Wyoming	Cheyenne	1890	97,914	97,411	503	
Colorado	Denver	1876	104,247	103,884	363	
New Mexico	Santa Fe	1912	121,666	121,510	156	
Arizona	Phoenix	1912	113,900	113,575	334	
Utah	Salt Lake City	1896	84,916	82,339	2,577	
Nevada	Carson City	1864	110,540	109,788	752	
Pacific			916,690	897,010	19,680	
Washington	Olympia	1889	68,192	66,709	1,483	
Oregon	Salem	1859	96,981	96,248	733	
California	Sacramento	1850	158,603	156,573	2,120	
Alaska	Juneau	1909	586,400	571,065	15,335	
Hawaii	Honolulu	1959	0,424	0,415	9	
Puerto Rico	San Juan		3,435	3,421	14	
American Samoa	Pago Pago		76	76		
Canal Zone <sup>4</sup>			553	362	191	
Guam	Agana		212	209	3	
Trust Terr. of Pacific Islands <sup>5</sup>			8,484	687	7,797	
Virgin Islands of U.S.	Charlotte Amalie		133	132	1	

<sup>1</sup> Dry land and land temporarily or partially covered by water, such as marshland, swamps, and river flood plains; streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres of area.

<sup>2</sup> Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area. Does not include water surface of the oceans, bays, the Gulf of Mexico, the Great Lakes, Long Island Sound, Puget Sound, and the Straits of Juan de Fuca and Georgia, lying within the jurisdiction of the United States but not defined as inland water.

<sup>3</sup> Year of ratification of Constitution; one of the original 13 States.

<sup>4</sup> See table 4, footnote 13.    <sup>5</sup> See table 4, footnote 16.

Source: Department of Commerce, Bureau of the Census; *U. S. Census of Population: 1960*, Vol. I, reports and records.

## No. 227. EXTREME POINTS OF THE UNITED STATES

[The geographic center of an area may be defined as that point on which the surface of the area would balance if it were a plane of uniform thickness or, in other words, the center of gravity of the surface. The exact position of the geographic center of the United States cannot be determined from the data available and the positions given here must be considered approximate only. They are believed to be sufficiently accurate for ordinary purposes]

LOCATION	Direction from geographic center	COORDINATES		Distance from geographic center
		Latitude (N)	Longitude (W)	
From geographic center of conterminous United States near Lebanon, Smith County, Kans., $39^{\circ}50'$ , $98^{\circ}35'$ to—				
Lake of the Woods, Minnesota	North	$49^{\circ}23'$	$95^{\circ}09'$	680
Key West, Florida	South	$24^{\circ}33'$	$81^{\circ}48'$	1,436
West Quoddy Head, Maine	East	$41^{\circ}49'$	$66^{\circ}57'$	1,640
Cape Alava, Washington	West	$48^{\circ}10'$	$124^{\circ}44'$	1,412
From geographic center of United States (excl. Hawaii) <sup>1</sup> near Castle Rock, Butte County, S. Dak., $44^{\circ}59'$ , $103^{\circ}38'$ to—				Miles
Point Barrow, Alaska	North	$71^{\circ}23'$	$156^{\circ}29'$	2,501
Key West, Florida	South	$21^{\circ}33'$	$81^{\circ}48'$	1,865
West Quoddy Head, Maine	East	$41^{\circ}49'$	$66^{\circ}57'$	1,770
Cape Wrangell, Attu Island, Alaska	West	$52^{\circ}55'$	$172^{\circ}27'$ (E)	3,023
From geographic center of United States (incl. Alaska and Hawaii) <sup>2</sup> west of Castle Rock, S. Dak., $44^{\circ}58'$ , $103^{\circ}46'$ to—				
Point Barrow, Alaska	North	$71^{\circ}23'$	$156^{\circ}29'$	2,502
Ka Lae (South Cape), Hawaii Island, Hawaii	South	$18^{\circ}56'$	$155^{\circ}41'$	3,456
West Quoddy Head, Maine	East	$41^{\circ}49'$	$66^{\circ}57'$	1,785
Cape Wrangell, Attu Island, Alaska	West	$52^{\circ}55'$	$172^{\circ}27'$ (E)	3,620

<sup>1</sup> Excludes islands adjacent to the conterminous United States.

<sup>2</sup> Excludes islands adjacent to the conterminous United States, but includes all islands of the Aleutian chain and Hawaii.

Note.—The following distances are computed to mean sea level: (a) from West Quoddy Head, Maine, west along the parallel to the Pacific Ocean, 2,807 miles; (b) from the south point of Texas due north to the 49th parallel, 1,593 miles; (c) from West Quoddy Head, Maine to Cape Wrangell, Alaska, 4,839 miles; (d) from West Quoddy Head, Maine, to Kure Island, Hawaii, 5,788 miles; (e) from Mangrove Point, Florida to Cape Wrangell, Alaska, 5,496 miles; (f) the two points farthest apart are Mangrove Point, Florida and Kure Island, Hawaii, a distance of 5,848 miles; (g) length of the northern boundary, excluding Alaska, is 3,987 miles; (h) length of the Canadian-Alaskan boundary, 1,538 miles; (i) length of the Mexican boundary from Gulf of Mexico to the Pacific Ocean, approximately 2,013 miles; (j) Cape Mendocino, California projection extends to latitude  $40^{\circ}27'$ , at longitude  $124^{\circ}24'$ ; Cape Sable, Florida (on mainland) projection extends to latitude  $25^{\circ}07'$ , at longitude  $81^{\circ}05'$ ; Kure Island, Hawaii projection extends to latitude  $28^{\circ}25'$ , at longitude  $178^{\circ}22'$ . The extreme south point of Texas is in latitude  $25^{\circ}50'$ , longitude  $97^{\circ}24'$ .

Source: Department of the Interior, Geological Survey; *Boundaries, Areas, Geographic Centers, and Altitudes of the United States and the Several States* (bulletin 817), M10-18A, and records.

## No. 228. WATER AREA, OTHER THAN INLAND WATER, BY PRIMARY BODIES OF WATER—STATES

[In square miles. Includes only that portion of body of water under the jurisdiction of the U.S., excluding Alaska and Hawaii. Excludes inland waters; see footnote 2, table 226]

BODY OF WATER	State	Area	BODY OF WATER	State	Area
Total		74,364	Gulf of Mexico coastal water		3,837
Atlantic coastal water					
Florida		2,208	Alabama		660
Georgia		37	Florida		1,098
Maine		48	Louisiana		1,016
Massachusetts		1,102	Mississippi		556
Rhode Island		950	Texas		7
South Carolina		14	Lake Michigan		22,178
Chesapeake Bay		138	Illinois		1,526
Maryland		3,237	Indiana		228
Virginia		1,726	Michigan		13,037
Delaware Bay		1,511	Wisconsin		7,387
Delaware		665	New York Harbor		92
New Jersey		350	New Jersey		69
Lake Erie		315	New York		23
Michigan		5,002	New York		3,033
New York		216	Pacific coastal water		343
Ohio		594	California		1,69
Pennsylvania		3,457	Oregon		48
Straits of Georgia and Juan de Fuca		735	Washington		226
Lake Huron	Michigan	1,610	Washington		661
Long Island Sound	Connecticut	8,975	Michigan		110
New York		1,299	Michigan		21,118
		573	Michigan		16,231
		726	Minnesota		2,212
			Wisconsin		2,675

Source: Department of Commerce, Bureau of the Census; *Areas of the United States: 1940*.

## No. 229. LENGTHS OF PRINCIPAL RIVERS

[Comprises rivers 400 miles or more in length. Length represents distance to designated outflow from (a) original headwater of named river where name applies to entire length of channel, or (b) upper limit of channel so-named, usually the junction of 2 tributaries or headwater streams]

RIVER	Outflow	Length (miles)	RIVER	Outflow	Length (miles)
Apalachicola-Chattahoochee	Gulf of Mexico	500	Niobrara	Missouri River	431
Arkansas	Mississippi River	1,450	North Canadian	Canadian River	760
Brazos	Gulf of Mexico	870	North Platte	Platte River	618
Canadian	Arkansas River	906	Ohio	Mississippi River	981
Cimarron	Arkansas River	600	Ohio-Allegheny	Mississippi River	1,306
Clark Fork-Pend Oreille	Columbia River	505	Quachita	Red River	605
Colorado (U.S.-Mex.)	Gulf of California	1,450	Pearl	Gulf of Mexico	490
Colorado (Texas)	Matagorda Bay	840	Pecos	Rio Grande	735
Columbia	Pacific Ocean	1,214	Pee Dee-Yadkin	Winyah Bay	435
Columbia, Upper	To mouth of Snake River	890	Porcupine	Yukon River	450
Connecticut	Long Island Sound	407	Red (Okla.-Tex.-La.)	Mississippi River	1,018
Cumberland	Ohio River	687	Red River of the North	Lake Winnipeg	545
Gila	Colorado River	630	Republican	Kansas River	445
Green (Utah-Wyo.)	Colorado River	730	Rio Grande	Gulf of Mexico	1,885
James (N. Dak.-S. Dak.)	Missouri River	710	St. Francis	Mississippi River	425
Koyukuk	Yukon River	500	Salmon (Idaho)	Snake River	420
Kuskokwim	Kuskokwim Bay	550	Santee-Wateree-Catawba	Atlantic Ocean	538
Little Missouri	Missouri River	560	Smoky Hill	Kansas River	540
Mariais des Cygnes—Osage	Missouri River	500	Snake	Columbia River	1,038
Milk	Missouri River	625	South Platte	Platte River	424
Mississippi	Mouth of SW Pass	2,348	Susquehanna	Chesapeake Bay	444
Mississippi, Upper	To mouth of Missouri River	1,171	Tanana	Yukon River	800
Mississippi-Missouri-Red Rock	Mouth of SW Pass	3,710	Tennessee	Ohio River	652
Missouri	Mississippi River	2,315	Tennessee-French Broad	Ohio River	862
Missouri-Red Rock	Mississippi River	2,533	Tombigbee	Mobile River	409
Mobile-Alabama-Coosa	Mobile Bay	639	Wabash	Ohio River	475
Neosho	Arkansas River	460	Washita	Red River	500

Source: Department of the Interior, Geological Survey.

## No. 230. AREAS OF SELECTED NATURAL LAKES

[In square miles. Comprises lakes with surface area of 100 square miles or more]

LAKE	State	Area	LAKE	State	Area
Bear	Idaho and Utah	110	Pend Oreille	Idaho	148
Becharof	Alaska	458	Pontchartrain <sup>1</sup>	Louisiana	625
Calcasieu	Louisiana	117	Rainy	Minnesota and Canada	345
Champlain	New York, Vermont, and Canada	490	Red Lake (Upper and Lower)	Minnesota	451
Flathead	Montana	197	St. Clair	Michigan and Canada	460
Great Salt <sup>1</sup>	Utah	<sup>2</sup> 1,100	Salton Sea <sup>1</sup>	California	<sup>2</sup> 350
Illamna	Alaska	1,000	Tahoe	California and Nevada	193
Lake of the Woods	Minnesota and Canada	1,485	Teschkpuk	Alaska	315
Leech	Minnesota	176	Ugashik	Alaska	147
Mille Lacs	Minnesota	207	Utah	Utah	140
Moosehead	Maine	117	Winnebago	Wisconsin	215
Naknek	Alaska	242	Yellowstone	Wyoming	137
Okeechobee	Florida	700			

<sup>1</sup> Salty.

<sup>2</sup> Variable.

Source: Department of the Interior, Geological Survey.

## No. 231. EXTREME AND MEAN ALTITUDES—STATES AND OTHER AREAS

[In feet]

STATE OR OTHER AREA	HIGHEST POINT		LOWEST POINT		Approximate mean altitude
	Name	Altitude	Name	Altitude	
United States	Mount McKinley	20,320	Death Valley	-282	2,500
Alabama	Cheaha Mountain	2,407	Gulf of Mexico	( <sup>1</sup> )	500
Alaska	Mount McKinley	20,320	Pacific Ocean	( <sup>1</sup> )	1,900
Arizona	Humphreys Peak	12,670	Colorado River	100	4,100
Arkansas	Magazine Mountain	2,823	Ouachita River	55	650
California	Mount Whitney	14,495	Death Valley	-282	2,800
Colorado	Mount Elbert	14,423	Arkansas River	3,350	6,800
Connecticut	Mt. Frissell, on South slope	2,380	Long Island Sound	( <sup>1</sup> )	500
Delaware	Ebright Road	442	Atlantic Ocean	( <sup>1</sup> )	60
Dist. of Col.	Tenleytown	410	Potomac River	( <sup>1</sup> )	150
Florida	Sec. 30, T6N, R20W, Walton County <sup>2</sup>	345	Atlantic Ocean	( <sup>1</sup> )	100
Georgia	Brasstown Bald	4,784	Atlantic Ocean	( <sup>1</sup> )	600
Hawaii	Mauna Kea	13,796	Pacific Ocean	( <sup>1</sup> )	1,900
Idaho	Bora Peak	12,602	Snake River	720	5,000
Illinois	Charles Mound	1,241	Mississippi River	270	600
Indiana	Franklin Twp., Wayne Co., Sec. 3, T15N, R1W <sup>2</sup>	1,257	Ohio River	320	700
Iowa	T100N, R44W, Osceola Co. <sup>2</sup>	1,075	Mississippi River	480	1,100
Kansas	Mount Sunflower, Sec. 12				
Kentucky	T12S, R43W, Wallace Co. <sup>2</sup>	4,026	Verdigris River	700	2,000
Louisiana	Black Mountain	4,145	Mississippi River	257	750
Maine	Driskill Mountain	535	New Orleans	-5	100
Maryland	Mount Katahdin	5,268	Atlantic Ocean	( <sup>1</sup> )	600
Massachusetts	Backbone Mountain, near Kempson, W. Va.	3,380	Atlantic Ocean	( <sup>1</sup> )	350
Michigan	Mount Greylock	3,491	Atlantic Ocean	( <sup>1</sup> )	500
Minnesota	Sec. 30, T50N, R31W, Barraga County <sup>2</sup>	1,980	Lake Erie	572	900
Mississippi	Eagle Mountain, Cook Co.	2,301	Lake Superior	602	1,200
Missouri	Woodall Mountain, near Iuka	806	Gulf of Mexico	( <sup>1</sup> )	300
Montana	Taum Sauk Mountain	1,772	St. Francis River	230	800
Nebraska	Granite Peak	12,799	Kootenai River	1,800	3,400
Nevada	T12N, R59W, Kimball Co. <sup>2</sup>	5,424	Southeast corner of State	840	2,600
New Hampshire	White Mountains, Boundary Peak	13,145	Colorado River	470	5,500
New Jersey	Mount Washington	6,288	Atlantic Ocean	( <sup>1</sup> )	1,000
New Mexico	High Point	1,803	Atlantic Ocean	( <sup>1</sup> )	250
	Wheeler Peak	13,160	Red Bluff Reservoir	2,817	5,700
New York	Mount Marcy	5,344	Atlantic Ocean	( <sup>1</sup> )	1,000
North Carolina	Mount Mitchell	6,684	Atlantic Ocean	( <sup>1</sup> )	700
North Dakota	White Butte, Slope County	3,506	Red River	750	1,900
Ohio	Campbell Hill	1,550	Ohio River	433	850
Oklahoma	Black Mesa	4,978	Red River	300	1,300
Oregon	Mount Hood	11,245	Pacific Ocean	( <sup>1</sup> )	3,300
Pennsylvania	Negro Mountain (Mount Davis)	3,213	Delaware River	( <sup>1</sup> )	500
Rhode Island	Jerimoth Hill	812	Atlantic Ocean	( <sup>1</sup> )	200
South Carolina	Sassafras Mountain	3,560	Atlantic Ocean	( <sup>1</sup> )	350
South Dakota	Harmey Peak	7,242	Big Stone Lake	962	2,200
Tennessee	Clingmans Dome	6,642	Mississippi River	182	900
Texas	Guadalupe Peak	8,751	Gulf of Mexico	( <sup>1</sup> )	1,700
Utah	Kings Peak	13,498	Beaverdam Creek	2,000	6,100
Vermont	Mount Mansfield	4,393	Lake Champlain	95	1,000
Virginia	Mount Rogers	5,729	Atlantic Ocean	( <sup>1</sup> )	950
Washington	Mount Rainier	14,410	Pacific Ocean	( <sup>1</sup> )	1,700
West Virginia	Spruce Knob	4,860	Potomac River	240	1,500
Wisconsin	Tim's Hill, Price County	1,953	Lake Michigan	581	1,050
Wyoming	Gannett Peak	13,785	Belle Fourche River	3,100	6,700
Puerto Rico	Cerro de Punta	4,380	Atlantic Ocean	( <sup>1</sup> )	2,200
American Samoa	Lata	3,056	Pacific Ocean	( <sup>1</sup> )	1,500
Canal Zone	Cerro Galera	1,205	Atlantic Ocean	( <sup>1</sup> )	100
Guam	Mount Lamlam	1,334	Pacific Ocean	( <sup>1</sup> )	650
Virgin Islands	Crown Mountain	1,556	Atlantic Ocean	( <sup>1</sup> )	750

<sup>1</sup> Sea level.<sup>2</sup> "Sec." denotes section; "T", township; "R", range; "N", north; "W", west; "S", south.

## No. 232. ALTITUDES OF NAMED SUMMITS

[In feet. Comprises peaks 14,000 feet or over, above sea level]

SUMMIT	State	Rank	Altitude	SUMMIT	State	Rank	Altitude
Mt. McKinley	Alaska	1	20,320	Mt. Sill	Calif.	44	14,162
North Peak	Alaska	2	19,470	El Diente Peak	Colo.	45	14,159
Mt. St. Elias	Alaska	3	18,008	Maroon Peak	Colo.	46	14,156
Mt. Foraker	Alaska	4	17,400	Tabeguache Mtn.	Colo.	47	14,155
Mt. Blackburn	Alaska	5	16,523	Mt. Oxford	Colo.	48	14,153
Mt. Bona	Alaska	6	16,421	Mt. Sneffels	Colo.	49	14,150
Mt. Sanford	Alaska	7	16,208	Point Success	Wash.	50	14,150
Mt. Vancouver	Alaska	8	15,700	Mt. Democrat	Colo.	51	14,142
Mt. Fairweather	Alaska	9	15,300	Liberty Cap	Wash.	52	14,133
Mt. Hubbard	Alaska	10	14,950	Capital Peak	Colo.	53	14,130
Mt. Bear	Alaska	11	14,850	Mt. Lindsey	Colo.	54	14,125
Mt. Hunter	Alaska	12	14,573	Pikes Peak	Colo.	55	14,110
Browne Tower	Alaska	13	14,530	Kit Carson Mtn.	Colo.	56	14,100
Mt. Alverstone	Alaska	14	14,500	Snowmass Mtn.	Colo.	57	14,092
Mt. Whitney	Calif.	15	14,495	Windom Mtn.	Colo.	58	14,091
Mt. Elbert	Colo.	16	14,423	Mt. Eolus	Colo.	59	14,086
Mt. Harvard	Colo.	17	14,420	Mt. Russell	Calif.	60	14,086
Mt. Rainier	Wash.	18	14,410	Humboldt Peak	Colo.	61	14,075
Mt. Massive	Colo.	19	14,404	Columbia Peak	Colo.	62	14,073
Mt. Williamson	Calif.	20	14,375	Mt. Augusta	Alaska	63	14,070
La Plata Peak	Colo.	21	14,340	Culebra Peak	Colo.	64	14,069
Blanca Peak	Colo.	22	14,317	Missouri Mtn.	Colo.	65	14,067
Uncompahgre Peak	Colo.	23	14,314	Mt. Bierstadt	Colo.	66	14,060
Crestone Peak	Colo.	24	14,291	Stewart Peak	Colo.	67	14,060
Mt. Lincoln	Colo.	25	14,284	Sunlight Peak	Colo.	68	14,060
Grays Peak	Colo.	26	14,270	Split Mtn.	Calif.	69	14,058
Mt. Antero	Colo.	27	14,269	Redcloud Peak	Colo.	70	14,050
Torreys Peak	Colo.	28	14,267	Hindman Peak	Colo.	71	14,048
Castle Peak	Colo.	29	14,265	Little Bear Peak	Colo.	72	14,040
Mt. Evans	Colo.	30	14,264	Middle Palisade	Calif.	73	14,040
Longs Peak	Colo.	31	14,255	Mount Langley	Calif.	74	14,028
Quandry Peak	Colo.	32	14,255	Mt. Tyndall	Calif.	75	14,018
Mount Wilson	Colo.	33	14,246	Pyramid Peak	Colo.	76	14,018
White Mountain	Calif.	34	14,246	Wetterhorn Peak	Colo.	77	14,017
North Palisade	Calif.	35	14,242	Wilson Peak	Colo.	78	14,017
Mt. Cameron	Colo.	36	14,238	Sunshine Peak	Colo.	79	14,016
Shavano Peak	Colo.	37	14,229	Mt. Muir	Calif.	80	14,015
Mt. Belford	Colo.	38	14,197	Maroon Bell	Colo.	81	14,014
Mt. Princeton	Colo.	39	14,197	San Luis Peak	Colo.	82	14,014
Mt. Yale	Colo.	40	14,196	Mt. Sherman	Colo.	83	14,007
Crestone Needles	Colo.	41	14,191	Mt. Wrangell	Alaska	84	14,006
Mt. Bross	Colo.	42	14,169	Huron Peak	Colo.	85	14,005
Mt. Shasta	Calif.	43	14,162				

Source: Department of the Interior, Geological Survey.

## No. 233. TORNADOES, FLOODS, AND TROPICAL CYCLONES: 1931 TO 1962

[Figures for tornadoes include Alaska and Hawaii]

PERIOD OR YEAR	TORNADOES			FLOODS		NORTH ATLANTIC TROPICAL CYCLONES AND HURRICANES <sup>1</sup>	
	Number	Lives lost		Number with property loss of \$1,000,000 and over	iv es lost	Property loss (mil. dol.)	Lives lost in U.S.
		Total	Most in a single tornado during period				
1931-35	830	909	37	7	368	187	21
1936-40	787	916	216	12	607	870	21
1941-45	727	980	100	22	346	605	20
1946-50	902	813	169	22	306	843	22
1951-55	2,087	940	116	39	502	2,507	18
1956-60	3,168	445	44	240	228	877	20
1955	593	125	80	4	302	995	5
1956	532	83	25	13	42	65	2
1957	864	191	44	19	82	360	5
1958	565	66	19	4	47	218	1
1959	589	58	21	4	25	141	7
1960	618	47	16	n.a.	32	93	5
1961	682	51	16	n.a.	52	154	2
1962	657	28	17	n.a.	n.a.	n.a.	1

<sup>1</sup> Not available.<sup>1</sup> Tropical cyclones have maximum winds of 39 to 73 miles per hour; hurricanes have maximum winds of 74 miles per hour or higher. <sup>2</sup> 1956-59 data.Source: Department of Commerce, Weather Bureau; *Climatological Data*, annual national summary issues.

## Area, Geography, and Climate

## No. 234. ESTIMATED WATER USE: 1900 TO 1960, AND PROJECTIONS TO 1980

[In billions of gallons daily average. In preparing these projections, it was estimated that the population residing in the United States (conterminous area) would grow from 176.2 million in 1959 to 230.8 million in 1980, and that the index of industrial production would rise from approximately 152 to 330 in the same period. See also *Historical Statistics, Colonial Times to 1957*, series J 91-102.]

YEAR	TOTAL WATER USE		IRRIGATION <sup>1</sup>		PUBLIC WATER UTILITIES		SELF-SUPPLIED USES					
							Rural domestic <sup>2</sup>		Industrial and miscellaneous <sup>3</sup>		Steam electric utilities	
	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground
1900	40.19	7.28	20.19	2.22	3.00	1.05	2.00	1.60	10.00	2.40	5.00	0.01
1910	66.44	11.68	39.04	5.27	4.70	1.49	2.20	1.76	14.00	3.15	6.50	0.01
1920	91.54	15.78	55.94	8.17	6.00	1.79	2.40	1.94	18.00	3.87	9.20	0.01
1930	110.50	18.18	60.20	9.09	8.00	2.30	2.90	2.40	21.00	4.37	18.40	0.02
1940	136.43	22.56	71.03	11.22	10.10	2.82	3.10	2.64	29.00	5.86	23.20	0.02
1945	170.46	28.33	83.06	14.12	12.00	3.28	3.20	2.78	41.00	8.12	31.20	0.03
1950	202.70	35.19	100.00	19.80	14.10	3.78	4.60	4.09	38.10	7.47	45.90	0.05
1955	268.80	47.79	116.30	29.08	16.30	4.27	5.40	4.91	49.20	9.45	76.60	0.08
1960	322.90	58.17	135.00	35.24	22.00	5.68	6.00	5.58	61.20	11.57	98.70	0.10
1965	371.70	66.30	148.10	40.14	25.00	6.28	6.50	6.14	73.20	13.62	118.90	0.12
1970	411.20	73.27	159.00	44.20	27.00	6.64	6.90	6.56	86.00	15.74	132.30	0.13
1975	449.70	79.37	169.70	47.52	29.80	7.15	7.20	6.85	98.40	17.71	144.60	0.14
1980	494.10	84.94	178.00	50.02	32.00	7.36	7.40	7.04	115.00	20.36	161.70	0.16

<sup>1</sup> Total take, including delivery losses but not including reservoir evaporation.

<sup>2</sup> Rural farm and nonfarm household and garden use, and water for farm stock and dairies.

<sup>3</sup> Manufacturing industries, mineral industries, rural commercial, air conditioning, resorts, hotels, motels, military and other State and Federal, and other miscellaneous uses.

Source: Department of Commerce, Business and Defense Services Administration.

### No. 235. INVENTORY OF PUBLIC WATER SUPPLIES FOR COMMUNITY WATER SYSTEMS: 1959

[Includes only systems serving a population of 25,000 or more. Estimated total number of public water systems in the United States (conterminous area) is 19,000 systems serving a population of approximately 132 million. An estimated 15.7 percent of water used by manufacturing industries is supplied by public water systems]

ITEM	Total	COMMUNITIES HAVING A POPULATION SERVED OF—				
		500,000 or more	250,000 to 499,999	100,000 to 249,999	50,000 to 99,999	25,000 to 49,999
Communities and districts—number	681	41	35	120	102	284
1950 Census population—1,000	67,222	32,934	6,331	11,692	8,736	7,479
Estimated population served—do	95,899	48,182	11,133	17,662	10,946	7,976
Ownership of public water supply—number	564	40	33	116	158	217
Municipal or district—public—do	466	34	24	93	131	184
Private—do	98	6	9	23	27	33
Average output of water <sup>1</sup> —mil. gal. daily	13,632	7,241	1,427	2,388	1,441	1,135
Water used, maximum month <sup>1</sup> —mil. gal.	563,003	296,618	58,760	101,746	59,655	46,224
Water used, maximum day <sup>1</sup> —mil. gal. daily	22,333	11,382	2,370	4,184	2,464	1,933
Impounded storage—mil. gal.	5,973,999	2,401,312	594,788	1,400,280	369,843	1,207,776
Transmission capacity, maximum—mil. gal. daily	31,147	19,224	3,358	4,192	2,752	1,621
Dependable yield, ground water—do	6,282	1,038	928	1,832	1,361	1,073
Raw water storage—mil. gal.	269,973	213,160	50,924	1,518	2,371	2,000
Raw water pumping capacity—mil. gal. daily	22,634	11,297	2,029	4,474	2,690	2,144
Treatment plant:						
Rated capacity—do	21,828	10,502	2,635	4,322	2,242	2,127
Overload capacity <sup>1</sup> —do	26,822	13,126	3,215	5,179	2,767	2,555
Service pumping capacity—mil. gal. daily	23,614	13,109	2,949	6,075	3,592	2,889
Distribution storage:						
Pumped to mains—mil. gal.	4,875	1,950	410	1,193	611	702
Elevated—do	65,406	56,675	1,507	3,654	2,028	1,542
Number of services <sup>1</sup> —1,000	19,130	7,750	2,218	3,968	2,944	2,250
Number of meters <sup>1</sup> —do	16,815	6,172	2,177	3,582	2,761	2,123

<sup>1</sup> Approximately 2 to 4 percent estimated.

Source: Department of Commerce, Business and Defense Services Administration.

## No. 236. AIR POLLUTION—NATIONAL AIR SAMPLING LEVELS, SELECTED CITIES: 1961

[Air pollution is defined as the presence in the air of substances put there by the activities of man, in concentrations sufficient to interfere with comfort, safety, or health or with use and enjoyment of property. Data represent values of samples taken nationally on a biweekly basis by the National Air Sampling Network. See text, p. 170.]

STATION	SUSPENDED PARTICULATE MATTER <sup>1</sup> (micrograms per cubic meter)			BENZENE-SOLUBLE ORGANIC MATTER <sup>1</sup> (micrograms per cubic meter)			RADIOACTIVITY <sup>2</sup> (micromicrocuries per cubic meter)			
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
Alabama.....	Birmingham.....	47	306	131	1.8	32.3	11.1	(3)	58.3	6.3
Alaska.....	Anchorage.....	19	243	68	0.8	19.3	4.5	(3)	27.7	2.8
Arizona.....	Phoenix.....	93	449	213	3.5	28.6	14.7	(3)	80.1	8.2
Arkansas.....	Little Rock.....	33	169	77	1.6	21.7	6.9	(3)	32.8	4.5
California.....	Los Angeles.....	83	302	162	6.4	58.0	21.6	(3)	33.0	6.3
	Oakland.....	41	243	88	2.8	36.0	9.7	(3)	26.2	4.1
	San Diego.....	45	195	95	1.5	37.7	10.0	(3)	20.5	3.8
	San Francisco.....	20	188	72	1.3	28.4	8.7	(3)	44.0	5.1
Colorado.....	Denver.....	48	341	115	5.0	36.4	11.7	(3)	26.4	4.3
Connecticut.....	Hartford.....	43	156	78	2.8	15.6	6.7	(3)	14.6	3.0
	New Haven.....	42	198	90	3.4	17.8	7.9	(3)	16.2	2.3
Delaware.....	Wilmington.....	79	743	193	3.1	55.3	12.7	(3)	29.3	3.6
Dist. of Col.....	Washington.....	30	268	128	3.1	31.7	13.5	(3)	38.2	4.4
Florida.....	Tampa.....	35	170	80	2.6	15.1	6.9	(3)	30.3	4.0
Georgia.....	Atlanta.....	28	194	84	3.2	29.5	7.9	(3)	12.3	2.2
Hawaii.....	Honolulu.....	21	117	43	0.8	8.0	3.0	(3)	11.7	1.6
Idaho.....	Boise.....	27	164	98	3.4	30.1	9.3	(3)	14.3	2.9
Illinois.....	Chicago.....	65	339	190	5.9	25.3	13.6	(3)	27.4	4.2
Indiana.....	Indianapolis.....	90	317	156	6.1	45.6	14.8	(3)	15.6	2.3
Iowa.....	Des Moines.....	59	392	130	3.3	17.5	8.3	(3)	14.7	2.8
Kansas.....	Wichita.....	35	202	85	0.9	22.8	6.2	(3)	14.9	3.0
Kentucky.....	Louisville.....	73	319	139	4.0	42.7	10.8	(3)	37.4	3.4
Louisiana.....	New Orleans.....	64	164	101	4.9	20.8	11.6	(3)	31.7	3.6
Maine.....	Portland.....	33	182	80	1.8	28.3	6.4	(3)	11.6	1.2
Maryland.....	Baltimore.....	74	340	141	5.4	42.0	13.7	(3)	17.6	3.1
Massachusetts.....	Boston.....	60	286	133	4.6	34.7	13.0	(3)	19.6	2.7
Michigan.....	Detroit.....	60	220	118	4.2	18.8	8.8	(3)	36.1	4.3
Minnesota.....	Minneapolis.....	24	220	78	0.8	30.7	6.4	(3)	18.0	2.5
	St. Paul.....	40	161	95	2.7	18.4	8.1	(3)	18.6	2.9
Mississippi.....	Jackson.....	26	279	98	1.6	35.6	7.4	(3)	35.1	4.4
Missouri.....	Kansas City.....	56	300	128	3.4	31.9	9.6	(3)	26.0	4.1
	St. Louis.....	67	287	141	4.2	25.2	11.8	(3)	21.0	3.0
Montana.....	Helena.....	13	168	61	0.8	8.4	2.7	(3)	52.5	6.0
Nebraska.....	Omaha.....	19	182	95	2.5	17.1	7.0	(3)	21.3	3.5
Nevada.....	Las Vegas.....	76	428	169	4.0	30.0	9.1	(3)	53.0	7.8
New Hampshire.....	Manchester.....	29	117	62	2.2	16.0	6.8	(3)	21.1	3.8
New Jersey.....	Newark.....	39	427	113	0.8	22.7	10.7	(3)	12.5	1.7
New Mexico.....	Albuquerque.....	63	420	184	2.0	78.4	11.9	0.1	25.0	4.1
New York.....	Buffalo.....	42	198	123	n.a.	n.a.	n.a.	n.a.	n.a.	D.A.
	New York.....	106	262	172	7.1	32.1	14.0	(3)	31.2	4.6
	Rochester.....	64	272	115	3.4	10.2	6.2	(3)	36.9	3.9
North Carolina.....	Charlotte.....	48	365	148	2.7	95.3	18.2	(3)	39.0	3.7
North Dakota.....	Bismarck.....	19	216	82	1.0	14.3	4.0	(3)	25.2	4.1
Ohio.....	Cincinnati.....	53	189	115	4.1	15.4	8.4	(3)	25.1	3.5
	Cleveland.....	56	246	135	5.0	23.8	9.9	(3)	40.6	4.7
	Columbus.....	37	374	105	1.7	57.4	9.1	(3)	63.0	5.5
Oklahoma.....	Oklahoma City.....	45	128	88	1.9	14.5	7.2	(3)	243.7	14.1
Oregon.....	Portland.....	30	186	86	0.8	30.0	8.7	(3)	16.0	2.4
Pennsylvania.....	Philadelphia.....	86	345	172	6.7	33.6	12.2	(3)	13.4	2.4
	Pittsburgh.....	61	297	137	2.6	45.5	9.7	0.1	43.5	3.6
Rhode Island.....	Providence.....	33	136	79	2.3	14.4	6.6	(3)	29.7	3.9
South Carolina.....	Columbia.....	11	186	93	0.9	35.7	9.8	(3)	22.3	4.5
South Dakota.....	Sioux Falls.....	20	161	63	1.5	10.8	4.1	(3)	28.0	4.2
Tennessee.....	Memphis.....	45	234	102	3.2	32.0	8.5	(3)	32.8	3.7
	Nashville.....	62	203	113	5.2	21.3	10.4	(3)	75.6	6.4
Texas.....	Dallas.....	30	157	91	2.4	25.4	9.1	(3)	44.1	4.1
	Houston.....	49	255	97	2.3	19.3	6.6	(3)	27.3	3.9
	San Antonio.....	46	504	96	1.4	49.4	6.4	(3)	227.7	14.2
Utah.....	Salt Lake City.....	36	407	145	3.7	46.8	13.8	(3)	28.6	7.8
Vermont.....	Burlington.....	19	117	63	0.7	6.8	3.1	(3)	10.3	1.8
Virginia.....	Norfolk.....	44	194	89	2.9	25.3	7.6	(3)	15.0	2.7
Washington.....	Seattle.....	43	361	86	2.3	64.4	10.2	(3)	13.3	1.7
West Virginia.....	Charleston.....	55	883	281	3.3	37.2	11.6	(3)	16.3	2.8
Wisconsin.....	Milwaukee.....	56	282	146	3.6	16.7	8.7	(3)	43.1	5.0
Wyoming.....	Cheyenne.....	10	68	32	0.7	7.1	2.5	(3)	46.2	6.2
Puerto Rico.....	San Juan.....	52	209	83	2.9	12.4	6.3	(3)	12.6	1.2

n.a. Not available.

<sup>1</sup> For definition, see headnote, table 237.

<sup>2</sup> Radioactivity associated with suspended particulate matter as measured by Beta radiation. High maximum values as compared with 1960 (see table 230, *Statistical Abstract*, 1962) are result of resumption of nuclear testing.

<sup>3</sup> Less than 0.1.

Source: Department of Health, Education, and Welfare, Public Health Service.

No. 237. SUSPENDED PARTICULATE MATTER LEVELS, BY URBAN POPULATION GROUPS: 1957-61

[In micrograms per cubic meter. Based on approximately 14,500 air samples taken in 180 cities. Suspended particulate matter consists of particles of smoke, dust, and fumes and droplets of viscous liquid remaining in the air for varying periods of time and ranging from less than 1 micron (1/25,000 inch) to 100 microns. Benzene-soluble organic matter is particulate matter soluble in benzene]

POPULATION GROUP	Number of cities	SUSPENDED PARTICULATE MATTER			BENZENE-SOLUBLE ORGANIC MATTER		
		Minimum	Maximum	Average	Minimum	Maximum	Average
United States.....	190	6	1,706	118	(1)	123.9	9.9
10,000 to 25,000.....	4	11	466	80	(1)	86.3	6.0
25,000 to 50,000.....	8	10	487	84	(1)	41.2	5.6
50,000 to 100,000.....	60	6	978	115	0.2	104.0	9.4
100,000 to 400,000.....	87	10	1,706	117	(1)	123.9	9.9
400,000 to 700,000.....	19	15	977	129	0.8	109.6	10.8
700,000 to 1,000,000.....	7	14	658	136	0.8	87.5	11.2
1,000,000 to 3,000,000.....	3	48	594	189	2.1	69.4	15.2
3,000,000 or more.....	2	65	714	189	3.6	56.0	14.7

<sup>1</sup> Less than minimum detectable amount.

No. 238. SUSPENDED PARTICULATE MATTER LEVELS, BY NONURBAN TOPOGRAPHIC CLASS: 1957-61

[In micrograms per cubic meter. Based on 3,114 air samples taken at nonurban sampling stations. See headnote, table 237]

TOPOGRAPHIC CLASS	Number of stations	SUSPENDED PARTICULATE MATTER			BENZENE-SOLUBLE ORGANIC MATTER		
		Minimum	Maximum	Average	Minimum	Maximum	Average
United States.....	150	1	461	36	(2)	23.5	2.0
Atlantic coast.....	5	3	198	33	(2)	10.9	2.1
Desert.....	5	1	403	34	(2)	8.3	1.5
Farmland.....	12	2	461	42	(2)	23.5	2.5
Forest.....	7	2	170	27	(2)	17.3	1.8
Great Lakes coast.....	5	6	295	44	(2)	7.4	2.0
Gulf coast.....	3	3	201	33	(2)	12.2	2.0
Mountain.....	8	1	225	29	(2)	10.0	1.7
Pacific coast.....	5	6	314	55	(2)	16.7	2.2

<sup>1</sup> Data for all 50 stations not available for all years.

<sup>2</sup> Less than minimum detectable amount.

No. 239. BETA RADIOACTIVITY LEVELS, BY MONTH: 1958 TO 1961

[In micromicrocuries per cubic meter. Based on varying numbers of air samples of suspended particulate matter per month, taken at 213 urban and 37 nonurban sampling stations]

MONTH	1958			1959			1960			1961		
	Min- imum	Maxi- mum	Aver- age									
January.....	0.1	7.7	1.9	1.0	52.1	9.0	(1)	0.4	0.1	(1)	0.3	0.1
February.....	0.1	4.5	1.5	0.5	39.5	8.2	(1)	0.6	0.1	(1)	1.7	(1)
March.....	0.1	59.8	4.2	0.8	27.9	8.5	(1)	26.3	0.3	(1)	0.4	0.1
April.....	0.6	29.0	7.4	0.4	71.0	8.9	(1)	0.5	0.2	(1)	0.6	0.1
May.....	0.3	31.0	6.3	0.2	23.6	6.8	(1)	0.7	0.2	(1)	0.7	0.2
June.....	0.1	19.0	4.1	(1)	18.3	3.2	(1)	0.5	0.2	(1)	0.7	0.1
July.....	0.2	85.0	5.9	0.1	6.4	1.3	(1)	0.5	0.1	(1)	0.4	0.1
August.....	0.3	11.0	3.0	0.1	2.5	0.5	(1)	0.8	0.1	(1)	0.2	0.1
September.....	0.1	6.6	2.2	(1)	2.9	0.3	(1)	0.4	0.1	(1)	202.9	8.0
October.....	0.2	79.9	9.2	(1)	26.5	0.2	(1)	0.5	0.1	0.1	108.0	16.7
November.....	0.1	508.0	14.4	0.6	0.1	(1)	0.3	0.1	0.4	0.1	73.7	16.0
December.....	0.8	35.8	7.5	(1)	0.5	0.1	(1)	0.3	0.1	0.2	40.6	8.6

<sup>1</sup> Level of radioactivity less than minimum detectable amount.

Source of tables 237-239: Department of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, Analyses of Suspended Particulates, 1957-1961*.

## No. 240. BETA RADIOACTIVITY LEVELS—STATES: 1958 TO 1961

[In micromicrocuries per cubic meter. See headnote, table 230]

STATE	1958		1959		1960		1961	
	Minim-	Maxi-	Minim-	Maxi-	Minim-	Maxi-	Minim-	Maxi-
United States	0.1	508.0	(1)	71.0	(1)	26.3	(1)	262.9
Alabama	0.6	20.3	(1)	24.5	(1)	0.4	(1)	58.3
Alaska	0.1	11.3	(1)	17.8	(1)	0.2	(1)	27.7
Arizona	1.4	63.7	0.1	52.1	(1)	1.9	(1)	108.0
Arkansas	0.1	16.5	0.1	17.5	(1)	0.4	(1)	43.9
California	0.2	126.0	0.1	33.8	(1)	0.9	(1)	73.7
Colorado	0.6	49.0	(1)	30.4	(1)	0.8	(1)	33.6
Connecticut	0.2	22.0	(1)	15.2	(1)	0.4	(1)	44.1
Delaware	2 0.7	2 12.0	0.1	19.5	(1)	0.5	(1)	29.3
District of Columbia	0.7	17.6	0.1	15.5	(1)	0.3	(1)	38.2
Florida	0.4	39.0	(1)	22.2	(1)	1.2	(1)	62.6
Georgia	0.4	24.2	(1)	27.9	(1)	0.4	(1)	51.2
Hawaii	0.5	17.1	(1)	16.1	(1) (2)	2 0.6	(1)	26.9
Idaho	0.7	59.8	0.1	27.9	(1)	0.3	(1)	35.2
Illinois	0.2	25.0	(1)	21.4	(1) (2)	2 0.3	(1)	29.7
Indiana	0.5	15.0	(1)	14.2	(1)	0.8	(1)	42.2
Iowa	0.9	15.9	(1)	16.9	(1)	0.4	(1)	20.1
Kansas	2 0.2	2 68.2	(1)	16.3	(1)	0.5	(1)	22.3
Kentucky	0.2	7.2	0.1	12.8	n.a.	n.a.	(1)	37.4
Louisiana	0.8	26.4	(1)	10.4	(1)	0.7	(1)	262.9
Maine	0.2	29.0	(1)	24.7	(1)	0.4	(1)	32.5
Maryland	0.2	15.0	(1)	15.2	(1)	0.3	(1)	33.7
Massachusetts	0.1	33.0	(1)	71.0	(1)	0.5	(1)	53.0
Michigan	0.2	16.4	(1)	18.4	(1)	0.4	(1)	36.1
Minnesota	0.2	20.3	(1)	11.5	(1)	0.3	(1)	31.7
Mississippi	0.4	20.9	(1)	17.2	(1)	0.3	(1) (2)	2 247.9
Missouri	0.8	31.8	0.1	25.4	(1)	0.3	(1)	26.0
Montana	0.6	508.0	(1)	13.0	(1)	0.4	(1)	52.5
Nebraska	0.5	76.0	(1)	12.5	(1)	0.4	(1)	41.8
Nevada	2 1.4	2 60.0	(1)	20.3	(1)	0.8	(1)	53.7
New Hampshire	2 0.3	2 20.4	(1)	14.2	(1)	0.3	(1)	22.1
New Jersey	0.1	18.2	(1)	17.9	(1)	0.2	(1)	28.1
New Mexico	1.5	85.0	(1)	39.5	(1)	0.5	(1) (2)	2 41.0
New York	0.1	20.6	(1)	29.0	(1)	0.4	(1)	81.0
North Carolina	0.1	34.5	(1)	14.6	(1)	0.4	(1)	39.0
North Dakota	0.2	22.0	(1)	11.0	(1)	0.4	(1)	29.4
Ohio	0.2	27.3	(1)	18.4	(1)	0.4	(1)	63.9
Oklahoma	0.5	17.0	0.1	3 15.3	(1)	0.4	(1)	243.7
Oregon	0.1	17.0	(1)	14.8	(1)	0.2	(1)	59.6
Pennsylvania	0.1	29.0	(1)	22.2	(1)	0.4	(1)	46.5
Rhode Island	0.4	17.2	0.1	11.0	(1)	0.3	(1)	29.7
South Carolina	0.2	21.0	(1)	22.0	(1)	0.5	(1)	32.0
South Dakota	0.8	26.5	0.1	26.5	(1) (2)	2 0.5	(1)	28.0
Tennessee	0.4	30.8	(1)	18.2	(1)	0.5	(1)	75.6
Texas	0.3	33.5	(1)	19.3	(1)	0.8	(1)	227.7
Utah	0.6	57.0	(1)	17.0	(1)	0.6	(1)	28.6
Vermont	0.4	14.0	(1)	21.0	(1)	0.3	(1)	19.6
Virginia	0.2	17.4	(1)	17.8	(1)	0.4	(1)	75.0
Washington	0.5	18.0	n.a.	n.a.	(1) (2)	2 0.3	(1)	23.2
West Virginia	0.5	16.3	(1)	20.3	(1)	0.5	(1)	16.3
Wisconsin	0.5	13.7	(1)	11.6	(1)	0.4	(1)	43.1
Wyoming	1.1	21.3	0.1	23.4	(1)	0.4	(1)	46.2
Puerto Rico	n.a.	n.a.	(1)	14.7	(1)	26.3	(1)	16.4

n.a. Not available.

<sup>1</sup> Level of radioactivity less than minimum detectable amount.<sup>2</sup> Based on data for 11 months only.<sup>3</sup> Based on data for 10 months only.Source: Department of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, Analyses of Suspended Particulates, 1957-1961*.

**No. 241. GROUND ELEVATION OF WEATHER STATIONS AND MEAN, LATEST SPRING AND EARLIEST FALL DATES OF OCCURRENCE OF FREEZE (32°)—SELECTED CITIES**

[Date of freeze based on 30-year period, 1921 to 1950]

STATION	Ground elevation (feet)	OCCURRENCE OF FREEZE				
		Spring date		Fall date		
		Mean	Latest	Mean	Earliest	
Alabama.....	Mobile.....	10	Feb. 17	Mar. 20	Dec. 12	Nov. 15
Alaska.....	Juneau.....	15	Apr. 27	June 8	Oct. 19	Sept. 22
Arizona.....	Phoenix.....	1,083	Jan. 27	Mar. 2	Dec. 11	Nov. 4
Arkansas.....	Little Rock.....	257	Mar. 16	Apr. 13	Nov. 15	Oct. 23
California.....	Los Angeles.....	312		Jan. 21		Dec. 9
	Sacramento.....	25	Jan. 24	Mar. 14	Dec. 11	Nov. 4
	San Francisco.....	52		Jan. 21		Dec. 11
Colorado.....	Denver.....	5,221	May 2	May 28	Oct. 14	Sept. 18
Connecticut.....	Hartford.....	169	Apr. 22	May 10	Oct. 19	Sept. 27
Delaware.....	Wilmington.....	73	Apr. 18	May 9	Oct. 26	Sept. 27
Dist. of Col.....	Washington.....	72	Apr. 10	May 12	Oct. 28	Oct. 2
Florida.....	Jacksonville.....	18	Feb. 6	May 14	Dec. 16	Nov. 9
	Miami.....	8		Feb. 6		
Georgia.....	Atlanta.....	1,054	Mar. 20	Apr. 15	Nov. 19	Oct. 24
Hawaii.....	Honolulu.....	12				
Idaho.....	Boise.....	2,842	Apr. 29	May 28	Oct. 16	Sept. 20
Illinois.....	Chicago.....	610	Apr. 19	May 13	Oct. 28	Sept. 25
	Peoria.....	654	Apr. 22	May 25	Oct. 16	Sept. 29
Indiana.....	Indianapolis.....	718	Apr. 17	May 11	Oct. 27	Oct. 1
Iowa.....	Des Moines.....	807	Apr. 20	May 11	Oct. 19	Sept. 28
Kansas.....	Wichita.....	1,321	Apr. 5	Apr. 21	Nov. 1	Sept. 27
Kentucky.....	Louisville.....	457	Apr. 1	Apr. 19	Nov. 7	Oct. 15
Louisiana.....	New Orleans.....	9	Feb. 15	Mar. 20	Dec. 3	Nov. 13
Maine.....	Portland.....	61	Apr. 29	May 30	Oct. 15	Sept. 17
Maryland.....	Baltimore.....	146	Mar. 28	Apr. 16	Nov. 17	Oct. 20
Massachusetts.....	Boston.....	15	Apr. 16	May 19	Oct. 25	Sept. 26
Michigan.....	Detroit.....	619	Apr. 25	May 12	Oct. 23	Sept. 29
	Sault Ste. Marie.....	721	May 18	June 8	Oct. 3	Aug. 22
Minnesota.....	Duluth.....	1,162	May 13	June 1	Oct. 3	Sept. 13
	Minneapolis.....	830	Apr. 30	May 24	Oct. 13	Sept. 18
Mississippi.....	Jackson.....	305	Mar. 10	Apr. 13	Nov. 13	Oct. 17
Missouri.....	Kansas City.....	741	Apr. 5	Apr. 17	Oct. 31	Oct. 6
	St. Louis.....	465	Apr. 2	May 2	Nov. 8	Oct. 14
Montana.....	Great Falls.....	3,664	May 14	June 8	Sept. 26	Sept. 7
Nebraska.....	Omaha.....	978	Apr. 14	May 11	Oct. 19	Sept. 24
Nevada.....	Reno.....	4,397	May 14	June 25	Oct. 2	Aug. 30
New Hampshire.....	Concord.....	339	May 11	May 26	Sept. 30	Sept. 13
New Jersey.....	Atlantic City.....	8	Apr. 10	Apr. 24	Nov. 5	Oct. 22
New Mexico.....	Albuquerque.....	5,310	Apr. 16	May 18	Oct. 29	Oct. 11
New York.....	Albany.....	19	Apr. 27	May 20	Oct. 13	Sept. 23
	Buffalo.....	693	Apr. 30	May 24	Oct. 25	Sept. 23
	New York.....	10	Apr. 7	Apr. 24	Nov. 12	Oct. 19
North Carolina.....	Charlotte.....	727	Mar. 21	Apr. 16	Nov. 15	Oct. 15
	Raleigh.....	400	Mar. 24	Apr. 20	Nov. 16	Oct. 29
North Dakota.....	Bismarck.....	1,650	May 11	May 30	Sept. 24	Sept. 6
Ohio.....	Cincinnati.....	761	Apr. 15	May 25	Oct. 25	Sept. 28
	Cleveland.....	787	Apr. 21	May 14	Nov. 2	Sept. 29
	Columbus.....	815	Apr. 17	May 9	Oct. 30	Oct. 7
Oklahoma.....	Oklahoma City.....	1,254	Mar. 28	Apr. 17	Nov. 7	Oct. 23
Oregon.....	Portland.....	30	Feb. 25	May 4	Dec. 1	Oct. 30
Pennsylvania.....	Philadelphia.....	26	Mar. 30	Apr. 20	Nov. 17	Oct. 19
	Pittsburgh.....	749	Apr. 16	May 4	Nov. 3	Oct. 10
Rhode Island.....	Providence.....	55	Apr. 13	Apr. 24	Oct. 27	Oct. 3
South Carolina.....	Columbia.....	217	Mar. 14	Apr. 13	Nov. 21	Nov. 1
South Dakota.....	Sioux Falls.....	1,420	May 5	May 29	Oct. 3	Sept. 12
Tennessee.....	Memphis.....	263	Mar. 20	Apr. 15	Nov. 12	Oct. 17
	Nashville.....	577	Mar. 28	Apr. 19	Nov. 7	Oct. 17
Texas.....	Dallas.....	487	Mar. 18	Apr. 15	Nov. 22	Oct. 27
	El Paso.....	3,920	Mar. 13	Apr. 11	Nov. 11	Oct. 31
	Houston.....	41	Feb. 5	Mar. 26	Dec. 11	Oct. 25
Utah.....	Salt Lake City.....	4,280	Apr. 12	Apr. 30	Nov. 1	Sept. 25
Vermont.....	Burlington.....	331	May 8	May 23	Oct. 3	Sept. 13
Virginia.....	Norfolk.....	26	Mar. 18	Apr. 14	Nov. 27	Nov. 7
	Richmond.....	162	Apr. 2	Apr. 20	Nov. 8	Oct. 21
Washington.....	Seattle.....	14	Feb. 23	Apr. 3	Dec. 1	Oct. 19
	Spokane.....	2,357	Apr. 20	May 16	Oct. 12	Sept. 18
West Virginia.....	Charleston.....	950	Apr. 18	May 11	Oct. 28	Sept. 29
Wisconsin.....	Milwaukee.....	672	Apr. 20	May 9	Oct. 25	Sept. 24
Wyoming.....	Cheyenne.....	6,131	May 20	June 18	Sept. 27	Sept. 5
Puerto Rico.....	San Juan.....		47			

Source: Department of Commerce, Weather Bureau; records.

## Temperature

183

## No. 242. NORMAL MONTHLY AVERAGE TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960.  
See also *Historical Statistics, Colonial Times to 1957*, series J 109-135 and J 163-265, for related data.]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An- nual
Ala.--- Mobile	52.5	54.7	59.3	66.6	74.1	80.0	81.0	81.1	77.4	68.9	57.9	53.1	67.2
Alaska--- Juneau	25.1	26.8	30.4	38.0	45.6	52.3	55.3	54.1	48.9	41.6	34.3	28.4	40.1
Ariz.--- Phoenix	50.7	54.5	60.5	68.7	77.0	85.6	91.3	89.0	84.3	72.2	50.1	52.6	70.5
Ark.--- Little Rock	40.6	44.4	51.8	62.4	70.5	78.9	81.9	81.3	74.3	63.1	49.5	41.9	61.7
Calif.--- Los Angeles <sup>1</sup>	55.8	57.1	59.4	61.8	64.8	68.0	73.0	73.1	71.9	67.4	62.7	58.2	64.4
Sacramento <sup>1</sup>	46.9	51.0	55.2	60.3	65.7	71.5	76.0	74.8	72.9	64.7	54.7	47.8	61.8
San Francisco <sup>1</sup>	50.7	53.0	54.7	55.7	57.4	60.1	68.8	60.4	62.0	61.4	57.4	52.5	56.8
Colo.--- Denver	30.0	32.5	37.9	47.4	56.7	67.0	73.4	72.0	63.5	52.4	39.2	33.1	50.4
Conn.--- Hartford	26.6	27.8	35.7	47.7	58.8	67.2	70.2	70.2	62.3	52.3	41.2	29.5	49.3
Del.--- Wilmington	33.4	33.8	41.3	52.1	62.7	71.4	76.0	74.3	67.6	56.6	45.4	35.1	54.1
D.C.--- Washington	36.9	37.8	44.8	55.7	65.8	74.2	78.2	76.5	69.7	59.0	47.7	38.1	57.0
Fla.--- Jacksonville	55.9	57.5	62.2	68.7	75.8	80.8	82.6	82.3	79.4	71.0	61.7	56.1	69.5
Miami	66.9	67.9	70.5	74.2	77.6	80.8	81.8	82.3	81.3	77.8	72.4	68.1	75.1
Ga.--- Atlanta	44.8	46.5	51.9	61.0	69.6	76.8	78.8	78.4	73.1	62.7	51.1	44.1	61.6
Hawaii--- Honolulu	72.5	72.4	72.8	74.2	75.9	77.9	78.3	79.4	79.2	78.2	75.9	73.6	75.9
Idaho--- Boise	28.6	30.4	41.2	49.9	57.7	64.8	74.7	72.1	63.2	52.6	39.1	32.2	50.8
Ill.--- Chicago	26.1	27.9	36.3	49.1	60.1	70.7	75.7	74.4	66.4	55.4	40.0	29.2	50.9
Peoria	25.7	28.4	37.6	50.8	61.5	71.7	76.0	74.3	66.4	55.3	39.7	29.1	51.4
Ind.--- Indianapolis	29.1	31.1	38.9	50.8	61.4	71.1	75.2	73.7	66.5	55.4	40.9	31.1	52.1
Iowa--- Des Moines	21.3	24.9	35.0	49.9	61.8	71.9	77.0	74.5	65.9	54.7	37.9	26.5	50.1
Kans.--- Wichita	32.0	36.3	44.5	56.7	66.0	76.5	80.9	80.8	71.3	59.0	44.4	35.8	57.1
Ky.--- Louisville	34.5	35.8	43.3	54.8	64.4	73.4	77.1	75.7	69.0	57.4	44.2	35.8	55.5
La.--- New Orleans <sup>1</sup>	56.0	58.2	62.8	69.7	76.7	82.3	83.4	83.5	80.2	72.6	62.0	57.1	70.4
Maine--- Portland	21.8	22.8	31.4	42.5	53.0	62.1	68.1	66.8	58.7	48.6	38.1	25.8	45.0
Md.--- Baltimore <sup>1</sup>	37.3	37.8	44.7	55.7	66.1	74.7	79.1	77.3	70.6	60.0	48.8	39.0	57.6
Mass.--- Boston	29.9	30.3	37.7	47.9	58.8	67.8	73.7	71.7	65.3	55.0	44.9	33.3	51.4
Mich.--- Detroit	26.9	27.2	34.8	47.1	58.5	69.2	73.9	72.3	64.6	53.8	40.4	29.9	49.9
Sault Ste. Marie	15.3	15.2	23.3	37.5	49.1	58.5	64.1	63.5	55.3	45.3	32.3	20.4	40.0
Minn.--- Duluth	8.7	11.3	21.8	37.5	49.7	50.3	66.0	64.3	54.7	44.1	32.6	14.0	38.2
Minneapolis--- St. Paul	12.2	15.9	27.6	44.7	57.6	67.3	73.0	70.5	60.5	48.3	30.5	17.8	43.8
Miss.--- Jackson	48.0	50.7	56.4	64.4	72.5	79.4	81.6	81.3	76.2	66.5	54.9	49.0	65.1
Mo.--- Kansas City	30.7	34.8	42.8	55.2	65.1	74.5	81.0	80.9	78.3	70.8	59.7	44.1	56.1
St. Louis	31.9	35.2	43.1	55.4	65.7	75.6	79.6	77.8	70.0	58.9	44.1	34.8	56.0
Mont.--- Great Falls	22.6	24.3	31.2	44.1	54.0	60.4	69.9	67.3	57.9	48.5	35.3	28.3	45.3
Nebr.--- Omaha	22.3	26.5	36.9	51.7	63.0	73.1	78.5	76.2	66.9	55.7	38.9	28.2	51.5
Nev.--- Reno	31.9	36.1	39.9	47.1	54.1	61.1	69.0	66.9	60.2	49.6	38.7	32.8	48.8
N.H.--- Concord	21.2	22.7	31.7	43.8	55.5	64.5	69.6	67.4	59.3	48.7	37.6	25.6	45.6
N.J.--- Atlantic City	34.8	34.7	41.1	50.0	61.3	70.0	75.1	73.7	67.2	57.2	46.7	36.6	54.1
N. Mex.--- Albuquerque	35.0	39.9	46.3	55.7	65.1	74.9	78.5	76.7	70.5	58.5	44.1	37.0	56.9
N.Y.--- Albany	22.7	27.3	33.0	46.2	57.9	67.3	72.1	70.0	61.6	50.8	39.1	26.5	47.6
Buffalo	23.5	23.1	30.5	43.0	54.3	64.8	69.8	68.4	61.4	50.8	38.6	27.2	46.3
New York <sup>1</sup>	32.2	33.4	40.5	51.4	62.4	71.4	76.8	75.1	68.5	55.3	47.0	36.2	54.5
N.C.--- Charlotte	43.4	44.7	50.5	60.3	69.0	76.9	78.7	77.7	72.4	62.0	50.9	43.2	60.8
Raleigh	41.6	43.0	49.5	59.3	67.6	75.1	77.9	76.9	71.2	60.5	50.0	41.9	59.5
N. Dak.--- Bismarck	8.9	12.5	25.2	43.0	55.4	64.5	72.2	69.8	58.7	46.2	28.4	16.8	41.8
Ohio--- Cincinnati <sup>2</sup>	33.7	35.1	42.7	54.2	64.2	73.4	76.9	75.7	69.0	57.0	44.6	35.3	55.2
Cleveland	27.6	28.1	35.4	46.6	57.5	67.2	71.0	69.4	62.4	51.8	39.4	29.4	48.8
Columbus	30.9	32.1	39.9	51.3	62.0	71.3	74.8	73.2	66.4	55.2	42.2	32.5	52.7
Oklahoma City	36.5	40.8	48.0	58.9	67.4	75.6	81.0	81.3	73.3	62.4	47.9	39.8	59.5
Oreg.--- Portland <sup>1</sup>	40.2	43.8	47.7	55.5	61.9	63.4	68.6	68.1	64.5	56.5	47.2	43.1	54.6
Pa.--- Philadelphia	32.3	34.2	41.9	52.5	63.4	72.0	76.7	74.7	67.7	57.3	46.0	35.6	54.6
Pittsburgh	28.9	29.2	36.8	49.0	59.8	63.4	72.1	70.8	62.4	53.1	40.8	30.7	50.3
R.I.--- Providence	29.2	27.9	37.0	47.2	57.5	66.2	72.1	70.5	63.2	53.2	43.0	32.0	50.1
S.C.--- Columbia	46.9	48.4	54.4	63.6	72.2	79.7	81.6	80.5	75.3	64.7	53.7	46.4	64.0
S. Dak.--- Sioux Falls	15.2	19.1	30.1	45.9	58.3	68.1	74.3	71.8	61.8	50.3	32.6	21.1	45.7
Tenn.--- Memphis	42.0	44.6	51.6	61.9	70.8	79.0	81.8	81.0	74.4	63.6	50.6	43.5	62.1
Nashville	30.9	42.0	49.1	59.6	68.6	77.4	80.2	79.2	72.8	61.5	48.5	41.4	60.0
Tex.--- Dallas	45.9	49.5	61.1	65.0	72.9	81.3	84.9	85.0	77.9	67.8	54.9	48.1	65.8
EI Paso	43.9	49.6	54.9	63.4	71.9	80.5	81.4	79.9	75.0	65.4	52.2	45.1	63.6
Houston <sup>1</sup>	54.6	57.1	62.4	69.3	76.2	82.2	83.9	84.1	79.8	72.4	61.6	55.7	70.0
Utah--- Salt Lake City	28.2	33.0	40.4	49.9	58.4	66.9	70.4	74.5	64.0	52.7	38.2	31.6	51.3
Vt.--- Burlington	18.2	19.4	29.2	43.2	55.8	65.7	70.5	68.2	59.9	48.6	36.8	23.0	44.9
Va.--- Norfolk	41.2	41.6	48.0	58.0	67.5	75.6	78.8	77.5	72.6	62.0	51.4	42.5	59.7
Wash.--- Richmond	38.7	39.9	46.7	57.1	65.5	74.6	78.1	76.5	70.2	59.2	48.5	39.7	58.0
Seattle <sup>1</sup>	41.2	43.6	46.4	51.8	57.4	61.4	65.6	65.0	61.2	54.4	46.9	43.8	53.2
Spokane	25.3	30.0	38.1	47.3	55.7	61.4	69.5	67.5	59.9	48.6	35.2	29.6	47.3
W. Va.--- Charleston	36.6	37.5	44.4	55.3	64.3	71.5	74.4	73.3	67.7	57.3	48.5	37.6	55.6
Wis.--- Milwaukee	20.6	22.4	31.0	43.0	53.4	63.3	68.7	67.8	60.3	50.0	35.8	24.6	45.1
Wyo.--- Cheyenne	25.9	27.8	31.9	41.6	51.4	61.5	69.0	67.2	58.1	47.5	34.7	30.0	45.6
P.R.--- San Juan <sup>1</sup>	75.1	75.1	76.0	77.0	78.8	79.9	80.1	80.8	80.7	80.2	78.6	76.7	78.3

<sup>1</sup> City office data.<sup>2</sup> Abbe Observatory data.

## No. 243. NORMAL MONTHLY MAXIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala. Mobile	62.3	64.7	69.3	76.5	83.9	89.4	89.8	90.2	86.4	79.3	68.6	62.9	76.9
Alaska Juneau	30.1	32.1	36.5	45.4	53.6	60.8	62.7	61.5	55.2	46.5	39.2	32.7	46.4
Ariz. Phoenix	64.0	68.1	75.0	83.9	92.9	101.6	104.6	101.6	98.2	86.7	73.7	66.1	84.7
Ark. Little Rock	50.6	54.6	62.7	73.5	81.5	89.7	92.7	92.4	86.3	76.0	61.3	52.1	72.8
Calif. Los Angeles	65.0	66.0	68.6	70.6	73.5	77.1	83.3	83.3	82.4	77.3	73.3	67.5	74.0
Sacramento	53.4	58.7	64.6	71.3	77.9	85.5	92.0	90.6	87.7	76.5	64.2	54.3	74.3
San Francisco	55.8	58.6	60.7	61.9	63.4	65.0	64.3	64.9	68.9	68.3	63.7	57.5	62.3
Colo. Denver	43.1	45.6	50.9	60.5	69.5	81.0	87.4	85.8	78.0	66.6	52.7	46.2	63.9
Conn. Hartford	35.6	37.0	44.9	58.7	70.8	79.1	83.4	81.0	73.2	63.8	50.7	38.4	50.7
Del. Wilmington	41.3	42.4	50.5	62.5	73.4	81.8	86.2	84.2	77.9	67.3	55.1	43.5	63.8
D.C. Washington	44.3	46.1	53.8	65.8	75.5	83.4	87.0	85.0	78.6	68.3	56.5	45.6	66.8
Fla. Jacksonville	66.8	68.5	73.3	79.6	86.4	90.5	92.0	91.4	87.6	80.2	72.2	66.7	79.6
Miami	75.8	77.0	79.8	82.6	85.4	88.0	88.8	89.7	88.0	84.7	80.2	77.1	83.1
Ga. Atlanta	54.0	56.5	62.9	72.1	80.5	87.3	88.4	88.3	83.1	73.6	62.0	53.8	71.8
Hawaii Honolulu	79.1	78.8	79.2	80.2	81.8	83.8	84.6	84.9	85.2	84.2	82.0	79.2	81.9
Idaho Boise	36.1	42.4	51.5	62.3	70.9	78.5	90.4	87.7	77.8	65.3	48.3	39.4	62.6
Ill. Chicago	33.2	35.3	44.0	58.6	70.5	81.0	85.6	84.2	76.6	65.0	47.9	36.0	59.8
Peoria	33.7	36.6	46.7	61.2	72.3	82.8	87.0	85.1	77.8	66.5	48.6	36.8	61.2
Ind. Indianapolis	37.1	39.4	48.1	61.2	72.0	81.8	86.0	84.7	78.0	66.8	50.0	39.0	62.0
Iowa Des Moines	30.1	33.9	44.1	60.6	72.8	82.6	88.3	85.4	77.6	66.4	47.5	34.9	60.4
Kans. Wichita	41.6	47.0	55.9	68.2	77.1	87.7	92.4	92.8	83.7	71.7	55.1	44.9	68.2
Ky. Louisville	43.5	45.6	53.8	66.4	76.2	85.0	88.5	87.3	81.3	69.6	54.4	44.7	66.4
La. New Orleans	63.8	66.2	71.0	77.7	84.5	89.8	90.6	90.6	86.9	80.0	69.8	64.7	78.0
Maine Portland	31.8	33.5	40.7	52.5	64.2	73.1	79.5	78.4	70.2	59.8	47.6	35.8	55.6
Md. Baltimore	44.1	45.3	52.9	64.7	75.1	83.4	87.4	85.3	78.8	68.4	56.4	45.7	65.6
Mass. Boston	36.8	37.4	44.6	55.7	67.5	76.3	81.9	80.0	73.4	62.7	51.9	40.1	59.9
Mich. Detroit	33.0	33.9	42.3	56.4	68.6	79.1	83.9	81.9	74.2	62.8	47.1	35.7	58.2
Sault Ste. Marie	23.1	24.0	31.7	46.4	59.9	69.9	75.6	74.0	64.4	53.5	38.6	27.3	49.0
Minn. Duluth	17.9	21.4	31.1	47.1	60.6	70.3	77.1	74.6	64.7	53.5	34.1	22.3	47.9
Minneapolis	22.2	26.3	37.4	56.0	69.6	78.7	87.4	81.8	72.1	59.8	39.7	27.0	54.6
St. Paul	58.3	61.5	67.9	75.8	83.8	90.3	91.9	92.0	87.7	79.1	67.1	59.7	76.3
Miss. Jackson	38.9	43.8	52.6	65.6	75.1	85.2	90.9	89.3	81.7	70.6	53.5	42.7	65.8
Mo. Kansas City	40.2	44.0	52.8	65.9	76.1	85.1	90.2	88.3	81.3	70.1	53.7	43.0	66.0
Mont. Great Falls	31.6	34.0	41.1	55.2	65.7	71.9	83.7	80.8	70.2	59.3	44.2	36.8	56.2
Nebr. Omaha	31.7	36.0	48.4	62.4	73.9	83.8	89.7	86.9	78.5	67.5	48.9	37.2	61.9
Nev. Reno	46.6	50.8	55.3	63.9	71.4	80.3	90.4	88.9	81.4	68.7	55.2	46.5	66.2
N.H. Concord	31.7	33.5	41.7	55.9	69.3	77.7	82.8	80.6	72.4	61.7	47.9	35.1	57.5
N.J. Atlantic City	42.9	43.3	49.7	60.3	71.0	79.3	83.8	82.2	70.0	66.5	55.5	45.1	63.0
N. Mex. Albuquerque	46.4	52.2	58.8	70.1	79.3	89.6	92.2	90.0	83.3	71.7	57.1	48.3	70.0
N.Y. Albany	31.0	32.5	41.9	56.7	69.5	78.7	83.7	81.4	72.9	61.8	47.5	34.5	57.7
Buffalo	29.8	30.0	37.6	51.9	64.5	75.1	80.1	78.6	71.5	60.1	45.5	33.3	54.8
New York	39.5	40.3	47.8	59.6	71.4	80.2	85.3	83.3	76.8	66.3	53.7	42.5	62.2
N.C. Charlotte	53.4	55.7	62.0	72.0	80.4	87.6	88.8	87.8	82.9	73.8	62.7	53.3	71.7
Raleigh	51.9	54.0	61.1	71.8	79.4	86.3	88.1	87.1	82.0	72.8	62.2	52.3	66.0
N. Dak. Bismarck	19.6	23.3	35.1	54.9	68.2	76.5	85.7	83.7	72.6	59.4	38.6	26.9	53.7
Ohio Cincinnati	41.3	43.4	52.0	64.4	74.9	83.8	87.5	86.4	80.3	68.9	53.2	42.6	64.9
Cleveland	34.8	35.6	44.1	57.5	68.7	78.1	81.8	80.2	73.5	62.6	48.0	36.9	58.5
Columbus	38.8	40.5	49.4	62.2	73.5	82.9	86.6	85.0	78.6	68.8	51.6	40.6	63.0
Oklahoma City	45.9	51.3	58.5	69.6	77.1	86.4	91.8	92.5	84.7	73.9	58.8	49.2	70.1
Oreg. Portland	44.9	49.5	54.1	62.2	68.5	72.6	79.2	78.4	72.4	64.0	52.6	47.6	62.4
Pa. Philadelphia	40.3	42.5	50.9	63.1	74.2	82.8	86.6	84.2	77.7	67.4	55.1	43.4	64.0
Pittsburgh	36.5	37.6	46.1	60.0	71.4	79.9	83.3	81.9	75.5	63.7	49.3	38.1	60.3
R.I. Providence	37.3	38.3	45.3	56.6	67.7	76.1	81.4	80.0	73.1	63.4	52.2	40.4	59.3
S.C. Columbia	58.2	60.5	66.5	76.3	84.7	91.5	92.5	91.2	86.1	77.4	66.7	58.2	75.8
S. Dak. Sioux Falls	25.1	29.1	39.4	57.0	70.1	79.4	86.0	83.3	73.5	61.9	42.5	30.3	50.5
Tenn. Memphis	50.6	53.9	61.4	72.1	81.1	89.3	92.1	91.7	85.6	75.7	61.5	52.5	72.3
Nashville	48.3	51.4	59.4	70.8	79.8	88.4	90.7	89.9	84.5	73.7	59.1	50.3	70.0
Tex. Dallas	55.8	59.5	67.0	75.4	82.7	90.9	94.5	95.0	88.3	78.8	65.7	58.0	76.0
El Paso	56.3	62.4	68.4	77.2	85.9	94.4	93.9	92.0	87.5	78.8	66.3	57.5	76.7
Houston	62.6	65.2	70.9	77.5	84.4	90.4	92.0	92.4	88.3	81.6	70.4	64.6	78.4
Utah Salt Lake City	36.8	42.0	51.0	62.4	72.0	81.7	92.1	89.8	80.3	66.2	48.5	40.0	63.6
Vt. Burlington	27.4	29.1	38.3	53.4	67.4	77.1	81.9	79.6	70.6	58.6	44.3	31.2	54.9
Va. Norfolk	50.2	51.0	57.2	68.0	77.3	84.9	87.9	86.2	80.9	70.9	61.0	51.8	68.9
Richmond	48.3	50.6	58.1	69.4	78.3	85.8	88.4	86.5	80.8	70.6	59.9	49.8	68.9
Wash. Seattle	45.6	48.8	52.7	59.4	65.7	69.6	75.1	73.9	69.0	60.4	51.8	48.0	60.0
Spokane	31.4	37.4	47.0	58.6	68.3	73.5	83.6	81.0	72.7	59.1	41.9	34.9	57.6
W. Va. Charleston	45.2	46.9	54.5	66.3	75.7	82.2	84.6	83.8	78.5	68.3	55.3	46.1	65.6
Wis. Milwaukee	28.3	30.2	38.8	53.1	63.9	73.0	78.9	77.7	70.7	60.1	44.1	32.0	54.3
Wyo. Cheyenne	38.2	40.4	44.1	54.5	64.1	75.5	84.2	81.8	73.2	61.7	47.2	41.6	58.9
P.R. San Juan	79.9	80.0	81.0	81.8	83.4	84.4	84.2	85.3	85.8	85.5	83.5	81.4	83.0

<sup>1</sup> City office data.<sup>2</sup> Abbe Observatory data.

Source: Department of Commerce, Weather Bureau; records.

## No. 244. NORMAL MONTHLY MINIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala.--- Mobile	42.7	44.7	49.3	56.6	64.3	70.5	72.1	72.0	68.3	58.5	47.2	43.3	57.5
Alaska--- Juneau	20.0	21.4	24.3	30.5	37.6	43.7	47.8	46.6	42.5	36.7	29.4	24.0	33.7
Ariz.--- Phoenix	37.3	40.9	45.9	53.4	61.1	69.5	78.0	76.4	70.3	57.6	44.4	39.0	50.2
Ark.--- Little Rock	30.5	34.1	40.9	51.2	59.5	68.0	71.1	70.1	62.2	50.2	37.6	31.7	50.6
Calif.--- Los Angeles <sup>1</sup>	46.6	48.2	50.2	53.0	56.0	58.9	62.6	62.9	61.4	57.4	52.1	48.8	54.8
	40.3	43.2	45.8	49.3	53.4	57.5	60.0	58.9	58.0	52.8	45.2	41.2	50.5
	45.5	47.3	48.6	49.5	51.3	53.1	59.3	53.9	55.1	54.4	51.0	47.4	50.9
Colo.--- Denver	16.8	19.3	24.8	34.3	43.8	53.0	59.4	58.2	49.0	38.2	25.6	20.0	36.9
Conn.--- Hartford	17.6	18.5	26.4	36.7	46.8	56.0	60.9	59.3	51.3	40.7	31.7	20.5	38.9
Del.--- Wilmington	25.5	25.2	32.0	41.6	52.0	61.0	65.8	64.3	57.3	45.9	35.7	26.7	44.4
D.C.--- Washington	20.5	20.4	35.8	45.6	50.0	64.9	69.3	67.9	60.7	49.6	38.9	30.5	48.2
Fla.--- Jacksonville	45.0	46.5	51.1	57.8	65.1	71.1	73.2	73.2	71.1	61.8	51.2	45.5	59.4
	57.9	58.8	61.1	65.8	69.7	73.5	74.7	74.9	74.6	70.9	64.6	59.1	67.1
Ga.--- Atlanta	35.5	36.5	40.9	49.0	58.6	66.3	69.2	68.4	63.1	51.7	40.1	34.8	51.3
Hawaii--- Honolulu	65.8	66.0	66.4	68.1	70.0	72.0	73.0	73.8	73.2	72.1	69.7	67.9	69.8
Idaho--- Boise	21.1	25.5	30.9	37.4	44.5	51.1	59.0	56.8	49.6	39.9	29.7	25.0	30.1
Ill.--- Chicago	18.9	20.4	28.6	39.6	49.7	50.4	65.7	64.6	56.2	45.7	32.1	22.3	42.0
	17.6	20.1	28.4	40.3	50.7	61.1	65.0	63.5	55.0	44.1	30.7	21.3	41.5
Ind.--- Indianapolis	21.0	22.8	29.7	40.3	50.7	64.0	64.3	62.7	54.9	44.0	31.8	23.2	42.2
Iowa--- Des Moines	12.5	15.9	25.8	30.1	50.7	61.2	65.6	63.6	54.1	43.0	28.3	18.1	39.8
Kans.--- Wichita	22.3	25.6	33.0	45.2	54.9	55.2	69.4	68.8	58.9	48.0	33.7	26.6	46.0
Ky.--- Louisville	25.5	26.0	32.8	43.1	52.6	61.8	65.6	64.1	56.7	45.2	33.9	26.8	44.5
La.--- New Orleans <sup>1</sup>	48.2	50.1	54.5	61.6	68.9	74.7	76.2	76.4	73.4	65.1	54.2	49.4	62.7
Maine--- Portland	11.7	12.1	22.0	32.4	41.7	51.1	56.7	55.2	47.2	37.4	28.6	16.3	34.4
Md.--- Baltimore <sup>1</sup>	30.4	30.3	36.5	46.6	57.1	66.0	70.7	69.2	62.4	51.6	41.2	32.2	49.5
Mass.--- Boston	23.0	23.1	30.7	40.0	50.1	59.2	65.4	63.3	57.1	47.2	37.8	26.5	43.6
Mich.--- Detroit	20.7	20.4	27.3	37.8	48.4	59.3	63.8	62.6	55.0	44.7	33.7	24.1	41.5
	7.4	6.4	14.8	28.6	38.3	47.0	52.5	53.0	46.1	37.1	25.9	13.4	30.9
Minn.--- Duluth	-0.6	1.1	12.4	27.9	38.7	48.3	54.9	53.9	44.7	34.6	19.5	5.7	28.4
	2.5	5.4	17.8	33.3	45.6	55.9	61.2	59.1	48.8	36.7	21.3	8.5	33.0
Miss.--- Jackson	37.6	39.9	44.8	52.9	61.2	68.4	71.2	70.5	64.7	53.9	42.7	38.3	53.8
Mo.--- Kansas City	22.4	25.7	33.0	44.8	55.0	65.5	71.0	69.2	59.9	48.7	34.6	29.0	46.4
	23.5	26.3	33.4	44.8	55.3	65.1	68.9	67.3	58.6	47.6	34.5	26.5	46.0
Mont.--- Great Falls	13.5	14.6	21.2	32.9	42.2	48.9	56.1	53.8	45.5	37.6	26.4	19.8	34.4
Nebr.--- Omaha	12.9	17.0	27.3	40.9	52.1	62.4	67.3	65.5	55.3	43.8	28.8	19.1	41.0
Nev.--- Reno	17.2	21.4	24.6	30.3	38.8	42.0	47.6	45.2	39.1	30.5	22.2	19.1	31.4
N.H.--- Concord	10.6	11.8	21.7	31.7	41.6	51.3	56.4	54.1	46.2	35.6	27.2	14.8	33.6
N.J.--- Atlantic City	26.6	26.1	32.4	41.7	51.5	60.7	66.3	63.8	54.1	47.8	37.9	24.1	45.2
N.Mex.--- Albuquerque	23.5	27.5	32.7	41.2	50.9	60.1	64.8	63.3	57.6	45.3	31.1	25.6	43.6
N.Y.--- Albany	14.4	18.4	24.0	35.7	46.3	55.8	60.5	58.5	50.3	39.8	30.6	18.5	37.4
	17.2	16.2	23.4	34.0	44.1	54.5	59.4	58.1	51.2	41.4	31.7	21.1	37.7
Buffalo	26.9	26.4	33.2	43.1	53.4	62.5	68.2	66.8	60.1	50.3	40.3	29.9	46.8
New York <sup>1</sup>	26.9	26.4	33.2	43.1	53.4	62.5	68.2	66.8	60.1	50.3	40.3	29.9	46.8
N.C.--- Charlotte	33.3	33.7	39.0	48.6	57.6	65.6	68.5	67.5	61.8	50.2	39.1	33.1	49.8
Raleigh	31.3	31.9	37.8	46.8	57.5	63.9	67.6	66.7	60.4	48.2	37.7	31.4	48.3
N.Dak.--- Bismarck	-1.9	1.7	15.3	31.1	42.6	52.4	58.7	55.8	44.7	33.0	18.1	6.6	29.8
Ohio.--- Cincinnati <sup>2</sup>	26.1	26.7	33.3	43.0	53.5	63.0	66.3	64.9	57.6	46.8	36.0	27.9	45.5
Cleveland	20.3	20.6	26.7	35.7	46.3	56.2	60.2	58.5	51.3	41.0	30.8	21.9	39.1
Columbus	23.0	23.7	30.3	40.4	50.4	59.6	62.9	61.4	54.2	43.5	32.8	24.4	42.2
Oklahoma City	27.1	30.2	36.5	48.1	57.6	65.5	70.2	70.0	61.9	50.8	37.0	30.4	48.9
Oreg.--- Portland <sup>1</sup>	35.5	38.1	40.7	44.8	49.7	54.2	57.9	57.8	54.8	49.0	41.7	38.6	46.9
Pa.--- Philadelphia	24.3	25.9	32.8	41.9	52.6	61.7	66.7	65.1	57.7	47.2	36.8	27.8	45.2
Pittsburgh	21.2	20.7	27.4	37.9	48.1	56.9	60.9	60.9	52.8	42.4	32.0	23.2	40.3
R.I.--- Providence	21.0	21.1	28.6	37.7	47.2	56.3	62.7	60.9	53.3	42.9	33.8	23.5	40.8
S.C.--- Columbia	35.6	36.3	42.8	50.8	59.6	67.0	70.7	69.7	64.5	52.0	40.7	34.5	52.1
S.Dak.--- Sioux Falls	5.2	9.0	20.8	34.7	46.5	56.8	62.5	60.3	50.0	38.6	22.7	11.9	34.9
Tenn.--- Memphis	33.4	35.3	41.7	51.7	60.4	68.6	71.5	70.3	63.1	51.5	39.7	34.5	51.8
	30.9	32.5	38.7	48.4	57.4	66.3	69.6	68.4	61.1	49.3	37.9	32.4	49.4
Tex.--- Dallas	36.0	39.4	45.2	54.6	63.1	71.7	75.3	75.0	67.4	56.8	44.1	38.1	55.6
El Paso	31.5	36.7	41.3	49.5	57.9	66.5	68.9	67.7	62.4	52.0	38.1	32.7	50.4
Houston <sup>1</sup>	46.6	49.0	53.8	61.0	67.9	73.9	75.8	75.7	71.3	63.1	52.7	48.4	61.6
Utah--- Salt Lake City	19.5	23.9	29.8	37.4	44.8	52.0	60.6	59.2	49.5	39.2	27.9	23.2	38.9
Vt.--- Burlington	8.9	9.6	20.0	33.0	44.2	54.2	69.0	66.8	49.1	38.6	29.1	14.8	34.8
Va.--- Norfolk	32.2	32.2	38.7	47.9	57.7	66.3	69.6	68.8	64.3	53.1	41.8	33.1	50.5
	29.0	29.2	35.3	44.8	54.6	63.4	67.7	66.4	59.6	47.7	37.1	29.5	47.0
Richmond	29.0	29.2	34.3	44.8	54.6	63.4	67.7	66.4	59.6	47.7	37.1	29.5	47.0
Wash.--- Seattle <sup>1</sup>	36.8	38.3	40.1	44.1	49.0	53.1	55.1	56.1	53.3	48.3	41.9	30.5	46.4
	36.8	38.3	38.3	41.1	44.1	49.0	53.1	55.1	56.1	53.3	48.3	34.9	46.4
Spokane	19.2	22.5	29.1	35.9	43.1	49.3	55.4	53.9	47.0	38.0	28.5	24.2	37.2
W. Va.--- Charleston	27.9	28.0	34.3	44.3	52.8	60.8	64.2	63.3	56.8	46.3	36.2	29.1	45.3
Wis.--- Milwaukee	12.8	14.6	25.2	34.1	42.9	52.6	58.4	57.8	49.9	39.9	27.5	17.1	35.9
Wyo.--- Cheyenne	13.6	15.2	19.7	28.6	38.6	47.5	53.8	52.6	43.0	33.2	22.2	18.4	32.2
P.R.--- San Juan <sup>1</sup>	70.3	70.1	71.0	72.2	74.1	75.4	76.0	76.2	75.6	74.9	73.7	72.0	73.5

<sup>1</sup> City office data. <sup>2</sup> Abbe Observatory data.

## Area, Geography, and Climate

## No. 245. HIGHEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Values adjusted to represent observation taken at the present standard location. For period of record through 1961]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala.----Mobile	20	84	82	90	92	100	102	104	102	98	93	85	80	104	
Alaska---Juneau	18	57	48	52	71	82	84	84	83	72	61	56	54	84	
Ariz.----Phoenix	23	85	88	92	104	113	117	118	115	118	104	91	88	118	
Ark.----Little Rock	18	83	82	86	92	96	104	107	107	106	94	86	80	107	
Calif.----Los Angeles <sup>1</sup>	21	86	90	88	96	99	104	103	101	101	104	95	89	110	
	28	70	74	82	94	102	112	110	109	109	102	83	72	112	
	25	75	75	83	86	91	101	92	87	97	94	84	76	101	
Colo.----Denver	1	64	70	69	83	90	95	99	98	97	84	72	67	99	
Conn.----Hartford	2	52	59	73	81	86	95	93	94	96	84	74	55	96	
Del.----Wilmington	14	75	74	86	89	93	99	102	101	100	91	85	71	102	
D.C.----Washington	20	79	82	89	95	94	101	103	100	100	94	85	75	103	
Fla.----Jacksonville	20	85	87	90	93	99	103	105	102	100	96	88	84	105	
	19	87	89	90	93	94	98	96	98	95	92	89	86	98	
Ga.----Atlanta	1	65	74	80	82	85	88	92	92	90	85	84	72	92	
Hawaii---Honolulu <sup>1</sup>	39	83	82	83	83	84	86	87	83	83	87	86	85	88	
Idaho---Boise	2	55	64	74	80	96	104	111	110	94	86	67	57	111	
Ill.----Chicago	19	67	69	82	88	94	104	103	101	101	91	81	65	104	
	19	68	70	81	89	92	100	103	101	100	90	81	66	103	
Ind.----Indianapolis	22	71	72	81	88	93	102	104	100	100	90	81	69	104	
Iowa----Des Moines	21	62	68	82	88	94	100	105	102	101	92	76	69	105	
Kans.----Wichita	9	68	80	89	94	99	106	112	107	103	95	80	83	113	
Ky.----Louisville	1	57	70	74	81	82	88	94	94	92	84	81	70	94	
La.----New Orleans <sup>1</sup>	47	83	85	90	91	97	102	100	100	99	93	89	84	102	
Maine----Portland	21	64	64	86	85	92	97	98	100	95	87	73	60	100	
Md.----Baltimore <sup>1</sup>	91	79	83	90	95	105	107	105	101	97	76	75	107		
Mass.----Boston	10	62	68	70	88	93	100	100	100	90	74	64	100		
Mich.----Detroit	28	67	68	82	87	93	104	105	101	100	89	81	59	105	
	21	43	45	75	82	85	92	92	98	93	80	66	51	98	
Minn.----Duluth	20	52	53	78	88	87	92	97	97	89	86	68	50	97	
	Minneapolis	21	58	59	78	92	95	100	104	102	98	89	75	63	104
	St. Paul	21	58	59	78	92	95	100	104	102	98	89	75	63	104
Miss.----Jackson	6	80	82	84	90	93	97	100	99	94	92	85	84	100	
Mo.----Kansas City	26	75	76	89	91	103	108	112	113	109	98	83	74	113	
	St. Louis	4	66	67	78	91	92	98	97	98	99	85	61	64	99
Mont.----Great Falls	23	62	67	72	87	90	99	102	105	94	91	72	69	105	
Nebr.----Omaha	8	62	65	80	92	94	102	107	103	102	88	75	64	107	
Nev.----Reno	20	68	70	78	87	94	101	104	102	101	89	77	69	104	
N.H.----Concord	20	68	66	85	88	93	98	99	100	98	89	80	63	100	
N.J.----Atlantic City	18	73	73	87	89	93	100	98	102	97	90	84	72	102	
N. Mex.----Albuquerque	1	54	67	73	85	91	100	101	98	91	82	71	60	101	
N.Y.----Albany	15	64	62	73	89	90	99	100	99	99	100	88	82	100	
	Buffalo	1	44	57	71	65	87	85	89	84	90	78	80	60	90
	New York <sup>1</sup>	93	72	75	86	92	96	101	106	104	102	94	84	70	106
N.C.----Charlotte	1	63	73	79	83	82	91	95	93	94	85	85	72	95	
	Raleigh	17	79	80	92	93	97	104	105	101	104	98	88	78	105
N. Dak.----Bismarck	20	54	68	81	92	98	99	107	109	105	95	73	60	109	
Ohio.----Cincinnati <sup>1</sup>	46	77	76	88	90	95	102	109	103	101	92	83	71	109	
	Cleveland	1	50	60	74	77	83	91	92	88	89	81	79	60	92
	Columbus	2	64	72	75	88	95	101	94	91	93	82	79	64	94
Oklahoma---Oklahoma City	8	70	81	89	95	100	107	107	102	93	81	86	107		
Oreg.----Portland <sup>1</sup>	59	65	68	83	93	99	102	107	102	102	90	71	65	107	
Pa.----Philadelphia	2	56	67	80	92	94	92	93	91	92	80	80	62	93	
	Pittsburgh	2	58	66	74	86	88	90	95	95	87	82	63	95	
R.I.----Providence	8	60	65	70	87	90	95	97	95	91	85	74	61	97	
S.C.----Columbia <sup>1</sup>	14	82	82	89	93	101	107	107	106	101	101	90	80	107	
S. Dak.----Sioux Falls	16	59	70	80	93	94	101	108	105	99	92	75	61	108	
Tenn.----Memphis	20	78	79	85	91	97	104	106	105	103	95	85	79	106	
	Nashville	22	78	77	93	98	97	106	107	104	105	94	84	76	107
Tex.----Dallas	19	88	88	96	96	99	105	111	109	105	99	89	89	111	
	El Paso	17	75	81	86	94	104	109	109	103	103	93	83	76	109
	Houston <sup>1</sup>	24	82	90	96	92	95	99	105	103	99	97	89	83	105
Utah---Salt Lake City	2	56	65	78	82	92	104	107	103	94	83	69	56	107	
Vt.----Burlington	18	63	60	84	84	91	96	99	101	94	85	75	62	101	
Va.----Norfolk	13	77	78	86	97	97	100	103	97	98	95	85	77	103	
	Richmond	32	80	83	93	96	100	104	104	102	103	99	86	78	104
Wash.----Seattle <sup>1</sup>	28	66	70	75	87	92	100	100	97	92	78	70	65	100	
	Spokane	2	49	52	71	72	87	97	102	108	90	79	58	51	108
W. Va.----Charleston	14	79	77	87	90	93	98	102	100	102	92	85	75	102	
Wis.----Milwaukee	5	53	56	60	82	90	91	98	96	94	81	68	58	96	
Wyo.----Cheyenne	2	61	66	70	82	85	92	96	95	93	79	67	64	96	
P.R.----San Juan <sup>1</sup>	63	90	91	96	93	94	93	92	94	94	94	93	90	96	

<sup>1</sup> City office data.

Source: Department of Commerce, Weather Bureau; records.

## No. 246. LOWEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Values adjusted to represent observations taken at the present standard location. For period of record through 1961]

STATION	Length of record (yrs.)	Temperature												An- nual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
Ala.----Mobile	20	14	11	21	36	43	56	60	59	47	32	22	18	11	
Alaska----Juneau	18	-15	-12	-11	7	25	31	36	27	26	16	-3	-21	-21	
Ariz.----Phoenix	23	17	22	29	32	42	50	61	60	49	36	25	22	17	
Ark.----Little Rock	18	7	-5	11	32	41	52	56	57	37	31	17	9	-5	
Calif.----Los Angeles <sup>1</sup>	21	23	34	38	42	47	50	54	53	51	46	40	32	28	
	28	22	26	31	34	37	44	51	50	44	34	30	23	22	
	25	30	36	38	42	44	47	47	48	48	45	41	37	30	
Colo.----Denver	1	-3	9	4	21	32	40	48	44	29	22	-2	-16	-16	
Conn.----Hartford	2	-26	-21	4	23	30	39	43	46	34	24	15	-5	-26	
Del.----Wilmington	13	-4	2	9	23	34	44	50	48	37	26	14	6	-4	
D.C.----Washington	19	5	11	21	34	47	55	53	40	30	16	1	1	1	
Fla.----Jacksonville	20	20	19	25	35	49	57	64	55	38	23	17	17	17	
	19	34	32	40	41	53	65	69	68	51	39	35	32	32	
Ga.----Atlanta	1	10	22	33	34	41	56	62	61	50	35	26	17	10	
Hawaii----Honolulu <sup>1</sup>	39	57	58	58	59	64	64	68	68	69	66	62	59	57	
Idaho----Boise	2	-4	11	13	20	28	40	49	38	30	23	10	4	-4	
Ill.----Chicago	19	-15	-15	-7	19	30	35	49	46	36	20	-2	-14	-15	
	19	-14	-16	-10	20	31	39	48	43	26	20	-1	-14	-16	
Ind.----Indianapolis	22	-13	-19	-6	16	29	39	44	42	28	17	-2	-15	-19	
Iowa----Des Moines	21	-21	-20	-15	17	30	38	49	40	26	16	-2	-15	-21	
Kans.----Wichita	9	-10	-3	-2	24	33	44	54	48	40	23	8	-2	-10	
Ky.----Louisville	1	-8	6	26	25	33	47	52	54	45	27	19	4	-8	
La.----New Orleans <sup>1</sup>	47	17	20	28	41	50	62	66	65	54	40	31	19	17	
Maine----Portland	21	-21	-39	-21	8	23	33	41	38	23	18	6	-15	-39	
Md.----Baltimore <sup>1</sup>	91	-6	-7	5	15	34	46	54	51	39	30	12	-3	-7	
Mass.----Boston	10	-12	-4	10	17	34	47	55	52	40	31	17	-2	-12	
Mich.----Detroit	28	-9	-16	-1	14	30	38	48	43	32	25	5	-5	-16	
	21	-24	-25	-24	1	21	31	36	32	25	20	-5	-20	-25	
Minn.----Duluth	20	-35	-29	-26	-5	20	30	40	37	22	9	-17	-33	-35	
	Minneapolis-St. Paul	21	-31	-28	-27	9	26	34	48	40	26	18	-9	-22	-31
Miss.----Jackson	6	15	10	21	34	42	48	63	54	48	28	20	15	10	
Mo.----Kansas City	26	-13	-13	-3	16	32	44	54	49	34	24	5	-4	-13	
Mont.----Great Falls	4	-4	-5	-5	33	37	51	56	52	43	29	6	4	-5	
Nebr.----Omaha	23	-33	-35	-20	-6	15	31	42	35	25	7	-23	-35	-35	
Nev.----Reno	20	-16	-9	-2	13	19	25	33	30	21	13	1	-9	-16	
N.H.----Concord	20	-30	-37	-16	9	21	33	38	33	21	16	5	-22	-37	
N.J.----Atlantic City	18	-8	-4	9	24	32	42	52	49	35	26	16	-7	-8	
N. Mex.----Albuquerque	1	15	16	18	26	37	46	55	56	40	33	22	7	7	
N.Y.----Albany	15	-26	-21	-21	14	27	36	44	42	24	20	6	-19	-26	
	Buffalo	1	-6	-20	8	23	33	43	47	46	38	30	21	4	-20
	New York	93	-6	-15	3	12	32	44	52	50	39	28	5	-13	-15
N.C.----Charlotte	1	8	21	29	28	41	52	53	60	51	31	22	15	8	
N. Dak.----Bismarck <sup>1</sup>	17	7	7	11	27	32	44	54	54	37	25	14	7	7	
Ohio----Cincinnati <sup>1</sup>	46	-17	-9	3	18	31	43	52	50	35	22	-1	-10	-15	
	Cleveland	1	-7	-4	20	24	28	39	43	49	34	36	24	-4	-7
	Columbus	2	-13	3	-2	24	32	44	50	51	32	23	16	-7	-13
Okl.----Oklahoma City	8	-4	9	3	20	39	47	57	51	46	22	11	6	-4	
Oreg.----Portland <sup>1</sup>	50	6	7	22	30	36	41	43	44	35	20	15	3	3	
Pa.----Philadelphia	2	-4	-4	9	29	35	48	52	51	39	29	21	7	-4	
	Pittsburgh <sup>1</sup>	2	-10	-7	-1	21	31	42	48	51	31	27	8	-3	-10
R.I.----Providence	8	-9	-6	8	14	29	43	49	45	35	26	16	3	-3	
S.C.----Columbia	14	12	11	18	29	41	51	54	54	44	23	16	4	4	
S. Dak.----Sioux Falls	16	-26	-27	-23	11	20	33	44	34	24	13	-17	-25	-27	
Tenn.----Memphis	20	1	-11	12	29	38	50	52	48	36	25	9	11	-11	
	Nashville	22	-15	-13	5	25	36	44	51	47	36	26	-1	5	-15
Tex.----Dallas	19	2	7	11	31	39	53	61	61	36	30	17	12	2	
	El Paso	17	-6	8	18	28	38	50	60	59	41	32	16	5	-6
	Houston <sup>1</sup>	24	10	14	21	39	46	57	68	63	45	37	28	20	10
Utah----Salt Lake City	2	-3	-4	13	24	28	38	52	44	32	18	11	-10	-10	
Vt.----Burlington	18	-30	-26	-20	9	25	35	44	39	26	21	-2	-22	-30	
Va.----Norfolk	13	12	11	20	30	36	48	59	56	46	32	20	15	11	
	Richmond	32	-12	-10	11	26	31	41	51	46	38	23	10	-1	-12
Wash.----Seattle <sup>1</sup>	28	11	12	22	31	35	45	48	48	42	30	13	21	11	
	Spokane	2	-3	4	2	25	31	36	45	41	32	24	-2	-6	-6
W. Va.----Charleston	14	-6	-2	10	20	32	41	46	46	34	26	6	2	-6	
Wis.----Milwaukee	5	-14	-17	8	21	31	39	49	49	30	26	-1	-10	-17	
Wyo.----Cheyenne <sup>1</sup>	2	-20	-19	-11	18	30	38	47	42	22	12	-8	-17	-20	
P.R.----San Juan <sup>1</sup>	63	63	62	63	65	66	66	70	68	60	68	65	62	62	

<sup>1</sup> City office data.

Source: Department of Commerce, Weather Bureau; records.

## Area, Geography, and Climate

## No. 247. NORMAL MONTHLY AND ANNUAL PRECIPITATION—SELECTED CITIES

In inches. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960. T denotes trace. See also *Historical Statistics, Colonial Times to 1957*, series J 136–265, for related data.

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.... Mobile	4.04	4.50	7.23	6.36	4.88	6.23	9.67	6.44	6.25	3.03	3.35	5.46	68.13
Alaska... Juneau	4.00	3.06	3.27	2.87	3.24	3.39	4.49	5.02	6.07	8.33	6.06	4.22	54.62
Ariz.... Phoenix	0.73	0.85	0.66	0.32	0.13	0.09	0.77	1.12	0.73	0.46	0.49	0.85	7.20
Ark.... Little Rock	5.22	4.33	4.81	4.93	5.28	3.61	3.34	2.82	3.23	2.88	4.12	4.09	48.63
Calif.... Los Angeles <sup>1</sup>	3.07	3.33	2.26	1.17	0.16	0.06	T	0.04	0.23	0.41	1.08	2.87	14.68
Sacramento <sup>1</sup>	3.58	3.47	2.46	1.62	0.62	0.12	T	0.04	0.22	0.80	1.54	3.55	18.02
San Francisco <sup>1</sup>	4.55	3.66	2.93	1.44	0.63	0.14	0.01	0.04	0.22	0.89	2.00	4.27	20.78
Colo.... Denver	0.55	0.69	1.21	2.11	2.70	1.44	1.53	1.28	1.13	1.01	0.69	0.47	14.81
Conn.... Hartford	3.58	2.94	3.80	3.73	3.41	3.70	3.61	4.01	3.65	3.18	3.84	3.47	42.92
Del.... Wilmington	3.40	2.95	4.02	3.33	3.53	4.07	4.25	5.59	3.95	2.91	3.53	3.03	44.56
D.C.... Washington	3.03	2.47	3.21	3.15	4.14	3.21	4.15	4.90	3.83	3.07	2.84	2.78	40.78
Fla.... Jacksonville	2.45	2.91	3.49	3.55	3.47	6.33	7.68	6.85	7.56	5.16	1.69	2.22	63.36
Miami	2.03	1.87	2.27	3.88	6.44	7.37	6.75	6.97	9.47	8.21	2.83	1.67	59.76
Ga.... Atlanta	4.44	4.51	5.37	4.47	3.16	3.39	4.72	3.60	3.26	2.44	2.96	4.38	47.14
Hawaii Honolulu	3.76	3.30	2.89	1.31	0.99	0.33	0.44	0.89	0.99	1.84	2.16	2.99	21.89
Idaho... Boise	1.32	1.33	1.32	1.16	1.29	0.89	0.21	0.16	0.39	0.84	1.20	1.32	11.43
Ill.... Chicago	1.86	1.60	2.74	3.04	3.73	4.07	3.37	3.16	2.73	2.78	2.20	1.90	33.18
Peoria	1.88	1.71	2.85	3.97	4.27	4.08	3.54	2.88	3.05	2.53	2.14	1.94	34.84
Ind.... Indianapolis	3.05	2.28	3.41	3.74	3.99	4.62	3.50	3.03	3.24	2.62	3.09	2.68	39.25
Iowa.... Des Moines	1.30	1.10	2.00	2.53	4.07	4.71	3.06	3.67	2.88	2.06	1.76	1.14	30.37
Kans.... Wichita	0.81	0.92	1.64	2.30	3.97	4.21	3.64	2.87	3.22	2.40	1.49	0.94	28.41
Ky.... Louisville	4.10	3.29	4.59	3.82	3.80	3.99	3.36	2.97	2.63	2.25	3.20	3.22	41.32
La.... New Orleans <sup>1</sup>	4.42	4.69	6.22	5.41	5.11	5.49	7.92	6.34	5.99	3.22	3.74	4.90	63.25
Maine... Portland	4.37	3.80	4.34	3.73	3.41	3.18	2.86	2.42	3.52	3.20	4.17	3.85	42.85
Md.... Baltimore <sup>1</sup>	3.43	2.98	3.94	3.71	4.15	3.87	4.39	4.60	3.63	3.25	3.10	3.16	44.21
Mass.... Boston	3.94	3.32	4.22	3.77	3.34	3.43	2.88	3.66	3.46	3.14	3.93	3.63	42.77
Mich.... Detroit	2.05	2.08	2.42	3.00	3.52	3.83	2.82	2.86	2.44	2.63	2.21	2.08	30.05
Sault Ste. Marie	2.07	1.30	1.81	2.16	2.77	3.30	2.48	2.89	3.81	2.82	3.33	2.28	31.22
Minn.... Duluth	1.15	0.96	1.62	2.36	3.29	4.27	3.54	3.81	2.86	2.17	1.78	1.16	28.97
Minneapolis	0.70	0.78	1.53	1.85	3.19	4.00	3.27	3.18	2.43	1.59	1.40	0.86	24.78
St. Paul	4.94	4.88	5.57	4.51	4.35	3.85	4.04	3.34	2.48	1.94	3.70	5.32	49.33
Miss.... Jackson	1.41	1.24	2.49	3.56	4.40	4.57	3.19	3.77	3.25	2.86	1.80	1.53	34.07
Kansas City	1.98	2.04	3.08	3.71	3.73	4.29	3.30	3.02	2.76	2.86	2.57	1.97	35.31
St. Louis	0.61	0.74	0.92	0.98	2.10	2.90	1.28	1.26	1.20	0.73	0.75	0.60	14.07
Nebr.... Omaha	0.82	0.95	1.45	2.56	3.48	4.53	3.37	3.98	2.63	1.73	1.26	0.80	27.66
Nev.... Reno	1.19	1.02	0.68	0.54	0.52	0.37	0.27	0.17	0.23	0.51	0.57	1.08	7.15
N.H.... Concord	3.23	2.48	3.26	3.31	3.17	3.00	3.41	2.96	3.75	2.66	3.72	3.25	38.80
N.J.... Atlantic City	3.56	3.13	3.91	3.41	3.51	2.83	3.72	4.90	3.31	3.20	3.66	3.22	42.36
N.Mex... Albuquerque	0.41	0.38	0.48	0.47	0.75	0.57	1.20	1.33	0.95	0.75	0.38	0.46	8.13
N.Y.... Albany	2.47	2.20	2.72	2.77	3.47	3.25	3.49	3.07	3.58	2.77	2.70	2.59	35.08
Buffalo	2.84	2.72	3.24	3.01	2.95	2.54	2.57	3.05	3.13	3.00	3.60	3.00	35.65
New York <sup>1</sup>	3.31	2.84	4.01	3.43	3.67	3.31	3.70	4.44	3.87	3.14	3.39	3.26	42.37
N.C.... Charlotte	3.53	3.45	4.39	3.49	3.11	3.61	4.88	4.22	3.49	2.96	2.53	3.62	43.38
Raleigh	3.22	2.33	2.35	3.52	3.52	3.70	5.49	5.20	3.85	2.71	2.77	3.02	43.58
N. Dak. Bismarck	0.44	0.43	0.78	1.22	1.97	3.40	2.19	1.73	1.19	0.85	0.59	0.36	15.15
Ohio.... Cincinnati <sup>1</sup>	3.67	2.80	3.89	3.63	3.80	4.18	3.59	3.28	2.71	2.24	2.95	2.77	39.51
Cleveland	2.67	2.33	3.13	3.41	3.52	3.43	3.31	2.80	2.90	2.42	2.61	2.34	35.85
Columbus	3.16	2.31	3.16	3.49	4.00	4.16	3.98	2.86	2.65	2.11	2.50	2.34	36.67
Oklahoma City	1.31	1.37	1.97	3.12	5.19	4.47	2.37	2.52	3.02	2.51	1.56	1.41	30.82
Oreg.... Portland <sup>1</sup>	6.34	4.90	4.78	2.45	2.05	1.68	0.39	0.69	1.74	3.89	6.04	7.42	42.37
Pa.... Philadelphia	3.32	2.80	3.80	3.40	3.74	4.05	4.16	4.63	3.46	2.78	3.40	2.94	42.48
Pittsburgh	2.97	2.19	3.92	3.08	3.91	3.78	3.88	3.31	2.54	2.52	2.24	36.14	
R.I.... Providence	3.81	3.10	4.14	3.75	3.35	2.76	2.91	3.96	3.52	3.10	4.11	3.62	42.13
S.C.... Columbia	3.02	3.74	4.26	4.01	3.54	3.85	6.09	5.74	4.31	2.38	2.36	3.52	46.82
S. Dak. Sioux Falls	0.62	0.93	1.54	2.31	3.31	4.58	3.39	2.84	2.61	1.25	1.00	0.74	25.16
Tenn.... Memphis	6.07	4.69	5.07	4.63	4.23	3.68	3.54	2.97	2.82	2.72	4.38	4.93	49.73
Nashville	5.49	4.51	5.19	3.74	3.72	3.25	3.72	2.86	2.87	3.28	4.19	4.5	45.15
Tex.... Dallas	2.32	2.55	2.85	4.00	4.83	3.24	1.94	1.93	2.82	2.70	2.67	34.55	
El Paso	0.46	0.41	0.35	0.29	0.40	0.69	1.29	1.19	1.14	0.85	0.33	0.49	7.89
Houston <sup>1</sup>	3.72	3.21	2.40	3.42	4.43	3.83	5.15	3.55	3.81	3.60	4.04	4.10	45.26
Salt Lake City	1.35	1.18	1.56	1.76	1.40	0.98	0.58	0.87	0.53	1.15	1.30	1.24	13.90
Vt.... Burlington	1.95	1.79	2.11	2.63	2.99	3.49	3.85	3.37	3.31	2.97	2.62	2.13	33.21
Va.... Norfolk	3.33	3.21	3.45	3.16	3.86	3.61	5.92	5.97	4.22	2.92	3.05	2.74	44.04
Richmond	3.46	2.90	3.42	3.15	3.72	3.75	5.61	5.54	3.65	3.00	3.04	2.97	44.21
Wash.... Seattle <sup>1</sup>	5.19	3.90	3.32	3.97	1.59	1.41	0.63	0.74	1.65	3.28	5.00	5.42	34.10
Spokane	2.44	1.86	1.50	0.91	1.21	1.49	0.38	0.41	0.75	1.57	2.24	2.43	17.19
W. Va. Charleston	4.32	3.53	4.34	3.68	3.71	3.69	5.67	3.95	2.92	2.58	2.79	3.25	44.43
Wis.... Milwaukee	1.83	1.40	2.31	2.53	3.16	3.64	2.95	3.06	2.72	2.10	2.18	1.63	29.51
Wyo.... Cheyenne	0.52	0.56	1.21	1.88	2.82	2.11	1.82	1.44	1.10	0.83	0.62	0.45	15.06
P.R.... San Juan <sup>1</sup>	4.13	2.70	2.07	3.89	7.16	5.83	6.02	6.34	6.04	5.24	6.05	4.89	60.36

<sup>1</sup> City office data.

Source: Department of Commerce, Weather Bureau; records.

## No. 248. AVERAGE NUMBER OF DAYS WITH PRECIPITATION OF 0.01 INCH OR MORE—SELECTED CITIES

[Airport data unless otherwise noted. Values adjusted to represent observations taken at the present standard location. For period of record through 1961]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala.-----Mobile	20	10	11	11	8	8	12	18	13	10	6	8	11	125	
Alaska-----Juneau	18	18	17	18	17	17	15	17	18	20	23	20	22	222	
Ariz.-----Phoenix	22	4	4	3	2	1	1	4	5	3	3	2	4	34	
Ark.-----Little Rock	19	10	10	11	11	10	8	7	7	7	6	8	9	105	
Calif.-----Los Angeles <sup>1</sup>	21	6	5	6	4	2	1	(2) <sup>2</sup>	1	1	1	2	4	53	
	Sacramento <sup>1</sup>	28	11	10	8	6	3	1	(2) <sup>2</sup>	1	1	3	6	59	
	San Francisco <sup>1</sup>	25	11	10	10	6	4	2	1	1	1	4	7	10	
Colo.-----Denver	27	6	8	9	11	9	8	6	6	6	5	4	87		
Conn.-----Hartford	7	10	10	12	13	12	11	11	11	10	9	12	10	130	
Del.-----Wilmington	14	12	10	13	12	13	10	9	9	8	9	9	10	123	
D.C.-----Washington	20	11	8	12	10	12	9	10	10	8	7	8	9	115	
Fla.-----Jacksonville	20	7	8	8	7	8	11	15	14	14	8	6	8	115	
	Miami	19	6	5	6	7	10	13	16	16	18	15	8	7	127
Ga.-----Atlanta	27	11	10	12	9	9	10	12	10	7	6	8	11	115	
Hawaii-----Honolulu <sup>1</sup>	39	12	12	13	12	11	11	13	13	12	12	13	14	148	
Idaho-----Boise <sup>1</sup>	22	12	11	10	8	9	6	2	2	3	7	10	11	90	
Ill.-----Chicago	19	10	10	12	13	12	11	9	8	8	8	10	10	121	
	Pearl	22	9	8	11	12	12	10	8	8	7	8	9	110	
Ind.-----Indianapolis	22	12	10	12	12	13	11	9	9	8	8	10	11	123	
Iowa-----Des Moines	22	7	8	10	10	11	11	9	9	9	7	6	7	103	
Kans.-----Wichita	8	6	6	8	7	11	9	0	7	7	6	4	5	85	
Ky.-----Louisville	14	13	11	13	13	11	11	10	8	7	7	9	11	123	
La.-----New Orleans <sup>1</sup>	46	10	9	9	7	9	12	15	14	10	7	7	7	119	
Maine-----Portland	21	12	11	11	12	13	12	9	9	9	9	11	11	126	
Md.-----Baltimore <sup>1</sup>	91	11	10	12	11	11	11	11	11	11	8	9	10	123	
Mass.-----Boston	10	12	12	13	13	10	10	10	10	10	9	10	10	132	
Mich.-----Detroit	28	13	12	13	13	12	11	9	9	9	9	11	13	134	
Minn.-----Sault Ste. Marie	20	18	15	13	11	11	12	10	10	10	13	11	18	161	
	Duluth	20	11	10	11	10	13	13	11	11	11	9	11	11	132
	Minneapolis-St. Paul	23	8	7	11	9	11	12	10	10	9	8	8	9	112
Miss.-----Jackson	6	10	12	12	9	10	9	11	10	9	7	9	10	119	
Mo.-----Kansas City	28	7	7	9	11	12	11	8	8	8	7	6	6	100	
	St. Louis	4	7	8	12	11	9	10	9	7	8	8	7	107	
Mont.-----Great Falls	24	8	8	9	8	11	13	7	7	7	6	7	6	98	
Nebr.-----Omaha	26	6	7	8	9	11	11	9	8	8	7	6	5	96	
Nev.-----Reno	19	6	6	6	4	5	3	3	2	2	3	4	5	47	
N.H.-----Concord	20	11	10	11	12	13	11	10	9	9	9	11	10	126	
N.J.-----Atlantic City	18	11	10	12	12	11	9	9	9	7	8	9	9	114	
N. Mex.-----Albuquerque	22	4	4	4	4	4	3	9	10	5	5	3	4	58	
N.Y.-----Albany	15	13	11	12	14	14	10	11	10	10	9	9	11	134	
	Buffalo	8	20	16	16	16	12	9	11	11	10	11	16	20	168
	New York <sup>1</sup>	93	12	10	12	11	11	10	11	10	10	8	8	9	10
N.C.-----Charlotte	22	9	10	12	9	9	9	12	10	7	7	7	10	111	
	Raleigh	17	10	11	10	9	10	10	12	11	9	8	9	9	117
N. Dak.-----Bismarck	22	8	7	8	7	9	12	9	9	7	6	6	7	95	
Ohio-----Cincinnati <sup>1</sup>	46	13	11	13	13	13	13	10	9	9	9	10	11	134	
	Cleveland	20	16	14	16	15	14	11	10	9	9	10	15	154	
	Columbus	22	14	12	14	13	13	12	11	9	8	8	11	137	
Oklahoma City	22	5	7	7	8	10	9	7	6	6	6	5	5	81	
Oreg.-----Portland <sup>1</sup>	59	19	16	17	14	12	9	3	4	7	12	17	19	152	
Pa.-----Philadelphia	21	11	9	12	11	12	10	10	10	8	8	9	10	119	
	Pittsburgh	9	16	14	16	14	12	12	11	10	7	11	13	15	
R.I.-----Providence	8	11	10	13	13	12	11	10	10	9	9	11	11	130	
S.C.-----Columbia	14	9	10	11	9	8	9	12	12	8	6	7	9	111	
S.Dak.-----Sioux Falls	16	5	6	9	8	10	11	9	10	8	6	5	6	93	
Tenn.-----Memphis	11	10	10	12	10	8	8	9	7	6	5	8	10	105	
	Nashville	20	12	11	13	11	11	10	10	9	7	7	9	11	120
Tex.-----Dallas	21	8	8	8	9	8	6	5	6	5	6	6	6	81	
	El Paso	22	3	2	2	2	2	4	8	7	4	2	3	43	
	Houston <sup>1</sup>	24	10	9	8	8	8	5	4	6	6	7	10	106	
Utah-----Salt Lake City	33	10	9	10	9	8	8	5	4	6	5	6	7	86	
Vt.-----Burlington	18	14	12	13	13	13	11	12	11	12	8	8	9	149	
Va.-----Norfolk	13	10	10	12	11	10	9	11	12	8	8	8	8	118	
	Richmond	24	10	9	12	10	11	10	12	10	7	10	9	116	
Wash.-----Seattle <sup>1</sup>	28	19	16	16	13	11	9	5	6	8	14	17	19	151	
	Spokane	14	16	13	12	8	10	8	4	5	6	9	12	16	
W. Va.-----Charleston	14	17	14	16	14	14	12	13	10	8	10	12	14	152	
Wis.-----Milwaukee <sup>1</sup>	21	10	9	11	12	11	11	9	9	9	8	10	10	120	
Wyo.-----Cheyenne <sup>1</sup>	26	6	7	10	10	13	11	11	10	8	6	5	5	102	
P.R.-----San Juan <sup>1</sup>	63	20	14	14	14	16	17	19	20	18	18	19	20	208	

<sup>1</sup> City office data. <sup>2</sup> Less than  $\frac{1}{2}$  day.

## Area, Geography, and Climate

## No. 249. AVERAGE TOTAL SNOW AND SLEET—SELECTED CITIES

[In inches. Airport data unless otherwise noted. Values adjusted to represent observations taken at the present standard location. For period of record through 1961. T denotes trace]

STATION	Length of record (yrs.)													An- nual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Ala.----Mobile	20	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.4
Alaska----Juneau	18	18.0	19.3	15.8	4.2	T	0.0	0.0	0.0	T	1.3	10.3	22.3	91.2
Ariz.----Phoenix	24	T	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
Ark.----Little Rock	19	2.3	1.1	0.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9 4.7
Calif.----Los Angeles <sup>1</sup>	21	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T T
-----Sacramento	13	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T T
-----San Francisco <sup>1</sup>	25	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T T
Colo.----Denver	27	8.6	7.9	13.0	10.2	1.9	T	0.0	0.0	1.7	3.2	7.9	5.9	60.3
Conn.----Hartford	7	12.9	9.5	18.1	3.0	0.0	0.0	0.0	0.0	0.0	T	1.6	9.0	54.1
Del.----Wilmington	14	6.0	5.1	4.7	0.1	0.0	0.0	0.0	0.0	0.0	T	1.6	3.8	21.3
D.C.----Washington	18	4.7	4.6	2.7	T	0.0	0.0	0.0	0.0	0.0	T	0.8	3.1	15.9
Fla.----Jacksonville	20	T	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.1
-----Miami	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Ga.----Atlanta	27	0.7	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.2 1.6
Hawaii----Honolulu <sup>1</sup>	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Idaho----Boise	22	7.2	4.7	2.2	0.3	T	T	0.0	0.0	0.0	T	1.6	4.8	20.8
Ill.----Chicago	19	7.4	7.1	6.3	0.9	T	0.0	0.0	0.0	0.0	0.3	3.3	10.8	36.1
-----Peoria	18	5.0	4.8	5.0	0.5	T	0.0	0.0	0.0	0.0	T	2.1	5.6	23.0
Ind.----Indianapolis	30	4.0	4.1	3.6	0.6	T	0.0	0.0	0.0	0.0	T	2.0	4.3	18.6
Iowa----Des Moines	22	8.7	6.5	8.1	1.4	T	0.0	0.0	0.0	T	1.9	6.4	33.0	
Kans.----Wichita	8	3.8	4.9	5.0	0.3	0.0	0.0	0.0	0.0	T	0.7	2.3	17.0	
Ky.----Louisville	14	4.2	3.8	3.6	0.1	0.0	0.0	0.0	0.0	T	1.2	2.8	15.7	
La.----New Orleans <sup>1</sup>	47	T	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.1
Maine----Portland	21	19.5	18.5	14.0	2.5	0.3	0.0	0.0	0.0	T	T	3.4	12.5	70.7
Md.----Baltimore <sup>1</sup>	68	6.1	6.6	4.8	0.6	T	0.0	0.0	0.0	0.0	0.1	0.6	3.9	22.7
Mass.----Boston	26	12.9	10.5	7.9	0.7	T	0.0	0.0	0.0	T	1.5	6.7	40.2	
Mich.----Detroit	28	8.1	7.6	5.3	1.3	T	0.0	0.0	0.0	T	2.9	6.4	31.6	
-----Sault Ste. Marie	20	20.3	15.1	15.4	4.7	0.5	T	0.0	0.0	0.2	2.1	14.0	25.5	97.8
Minn.----Duluth	18	15.6	12.7	12.9	7.6	1.1	T	0.0	0.0	T	1.2	9.0	14.5	75.5
-----Minneapolis	23	6.2	7.5	10.1	2.3	0.2	0.0	0.0	0.0	0.1	0.4	6.6	7.4	40.8
Miss.----Jackson	6	T	1.9	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	1.9
Mo.----Kansas City	28	5.1	3.8	4.3	0.7	T	0.0	0.0	0.0	T	1.1	4.7	19.7	
-----St. Louis	25	3.9	3.9	4.9	0.1	T	0.0	0.0	0.0	T	1.3	3.2	17.3	
Mont.----Great Falls	24	8.1	9.9	9.5	4.5	1.5	T	0.0	1.4	2.7	8.4	7.5	54.0	
Nebr.----Omaha	26	8.4	7.3	7.3	1.0	0.1	0.0	0.0	0.0	T	0.3	2.3	5.5	32.2
Nev.----Reno	19	6.8	5.0	4.8	1.0	0.1	T	0.0	0.0	T	0.3	2.0	3.4	23.4
N.H.----Concord	20	18.3	13.1	11.6	2.0	0.3	0.0	0.0	0.0	T	3.6	12.7	61.6	
N.J.----Atlantic City	17	4.2	3.4	3.7	0.3	0.0	0.0	0.0	0.0	T	0.3	2.4	14.3	
N. Mex.----Albuquerque	22	1.9	1.6	1.8	0.4	T	0.0	0.0	0.0	T	1.7	3.1	10.5	
N.Y.----Albany	15	15.9	14.4	12.9	2.9	T	0.0	0.0	0.0	0.0	0.1	2.9	12.1	61.2
-----Buffalo	8	26.3	21.5	17.0	4.6	T	0.0	0.0	0.0	T	0.3	13.7	23.4	106.8
N.C.----Charlotte	22	1.4	0.9	1.3	T	0.0	0.0	0.0	0.0	T	1.1	6.2	30.0	
-----Raleigh	17	2.4	1.7	1.1	T	0.0	0.0	0.0	0.0	T	0.4	4.0		
N. Dak.----Bismarck	22	6.8	6.0	8.1	3.1	0.9	T	0.0	0.0	0.2	1.3	5.5	5.1	37.0
Ohio----Cincinnati <sup>1</sup>	46	5.1	4.0	3.1	0.5	T	0.0	0.0	0.0	0.0	0.1	1.5	4.4	18.7
-----Cleveland	20	9.8	9.6	10.8	2.7	T	0.0	0.0	0.0	T	0.5	6.2	10.5	50.1
-----Columbus	14	6.3	5.0	4.3	0.8	T	0.0	0.0	0.0	T	3.1	6.7	26.2	
Oklahoma----Oklahoma City	22	3.4	2.5	1.7	T	0.0	0.0	0.0	0.0	T	0.3	1.6	9.5	
Oreg.----Portland <sup>1</sup>	59	5.2	1.7	0.6	0.1	T	0.0	0.0	0.0	T	0.1	1.2	8.9	
Pa.----Philadelphia	19	5.4	5.3	4.0	T	0.0	0.0	0.0	0.0	T	0.9	4.0	19.6	
Pittsburgh	9	9.6	8.4	8.6	2.5	T	0.0	0.0	0.0	0.0	0.2	4.0	8.2	41.5
R.I.----Providence	8	10.0	6.8	13.2	1.0	0.0	0.0	0.0	0.0	T	0.7	6.7	38.4	
S.C.----Columbia	14	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	T	0.0	0.7	1.4	
S. Dak.----Sioux Falls	16	5.8	8.7	12.8	2.3	T	0.0	0.0	0.0	T	0.2	5.2	6.1	41.1
Tenn.----Memphis	11	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	T	0.0	0.5	4.3	
-----Nashville	20	3.4	2.5	1.9	0.1	0.0	0.0	0.0	0.0	T	0.7	1.3	9.9	
Tex.----Dallas	21	1.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	
-----El Paso	22	1.5	0.7	0.5	T	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	4.6
-----Houston	23	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
Utah----Salt Lake City	33	13.2	9.5	8.1	3.1	0.2	T	0.0	0.0	T	0.7	6.4	10.4	51.6
Vt.----Burlington	18	18.3	18.1	10.7	1.8	T	0.0	0.0	0.0	T	5.7	14.5	69.1	
Va.----Norfolk	13	2.1	0.8	0.7	T	0.0	0.0	0.0	0.0	T	0.0	1.6	5.2	
-----Richmond	24	4.4	2.6	2.6	0.1	0.0	0.0	0.0	0.0	T	0.6	1.8	12.1	
Wash.----Seattle <sup>1</sup>	28	4.7	1.4	0.8	T	0.0	0.0	0.0	0.0	T	0.8	0.7	8.4	
-----Spokane	14	29.2	10.1	5.3	0.2	T	0.0	0.0	0.0	0.0	0.6	6.0	15.6	58.0
W. Va.----Charleston	14	7.3	5.2	4.4	0.6	0.0	0.0	0.0	0.0	T	0.3	3.4	28.0	
Wis.----Milwaukee	21	12.5	7.4	8.8	0.9	T	0.0	0.0	0.0	T	3.3	9.2	42.1	
Wyo.----Cheyenne	26	0.2	6.3	12.8	10.3	4.4	0.5	0.0	0.0	0.7	3.1	7.1	5.6	57.0
P.R.----San Juan <sup>1</sup>	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>1</sup> City office data.<sup>2</sup> New York-Central Park data.

Source: Department of Commerce, Weather Bureau; records.

## No. 250. AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE—SELECTED CITIES

[Airport data unless otherwise noted. Values adjusted to represent observations taken at the present standard location. For period of record through 1961]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala. .... Mobile <sup>1</sup> .....	48	51	54	60	67	71	68	59	63	64	70	62	46	61	
Alaska. .... Juneau .....	16	29	31	37	37	35	34	29	30	25	18	21	18	30	
Ariz. .... Phoenix .....	66	77	79	83	88	93	94	84	84	89	88	84	77	86	
Ark. .... Little Rock .....	19	43	50	54	60	63	70	68	72	68	69	57	47	61	
Calif. .... Los Angeles <sup>1</sup> .....	21	71	72	74	67	68	69	81	82	81	74	79	72	74	
	Sacramento <sup>1</sup> .....	13	41	59	63	78	83	91	97	95	93	87	60	46	78
	San Francisco <sup>1</sup> .....	25	54	60	67	71	71	74	65	64	72	70	64	53	66
Colo. .... Denver .....	12	71	70	68	62	63	72	71	73	76	73	65	69	69	
Conn. .... Hartford .....	7	53	49	53	47	55	57	57	59	58	54	46	46	54	
Del. .... Wilmington <sup>2</sup> .....	19	48	54	57	57	58	64	63	61	61	59	53	52	57	
D.C. .... Washington .....	13	47	51	54	55	56	65	64	61	64	59	54	49	57	
Fla. .... Jacksonville .....	11	59	63	63	68	68	58	59	57	46	52	58	53	59	
	Miami <sup>1</sup> .....	18	70	75	73	73	68	62	61	64	58	58	63	65	66
Ga. .... Atlanta .....	27	47	51	56	65	69	67	62	66	64	67	58	48	60	
Hawaii. .... Honolulu <sup>1</sup> .....	9	66	63	73	73	73	75	77	76	77	72	67	61	71	
Idaho. .... Boise .....	22	41	49	58	67	69	76	89	86	81	67	47	30	67	
Ill. .... Chicago .....	19	43	47	52	53	59	67	69	68	66	64	44	43	53	
	Pearl City .....	18	44	47	52	55	59	65	69	69	68	44	47	42	58
Ind. .... Indianapolis .....	10	38	51	53	55	61	69	73	74	71	67	46	44	60	
Iowa. .... Des Moines .....	11	50	54	52	57	61	67	71	71	69	66	57	46	61	
Kans. .... Wichita .....	8	60	56	58	61	62	73	75	77	75	67	69	63	67	
Ky. .... Louisville .....	14	36	44	49	54	63	68	68	69	70	62	50	41	58	
La. .... New Orleans <sup>1</sup> .....	46	49	51	57	65	69	67	61	64	65	72	62	48	61	
Maine. .... Portland .....	21	54	60	58	56	56	62	67	66	63	58	48	56	59	
Md. .... Baltimore <sup>1</sup> .....	57	48	56	59	59	61	64	65	63	64	63	55	49	59	
Mass. .... Boston .....	26	47	56	57	55	57	63	66	66	64	60	53	54	59	
Mich. .... Detroit .....	28	31	43	50	52	59	50	55	70	66	61	56	32	54	
Minn. .... Sault Ste. Marie .....	20	33	43	51	53	52	55	62	58	44	44	22	25	45	
	Duluth .....	11	52	56	60	55	53	63	69	62	51	52	37	44	56
	Minneapolis-St. Paul .....	23	51	57	54	56	58	61	69	66	61	58	40	41	58
Miss. .... Jackson .....	6	43	42	53	61	65	60	64	57	57	54	51	46	55	
Mo. .... Kansas City .....	28	51	55	56	59	62	69	76	73	70	68	58	50	64	
Mont. .... St. Louis .....	3	49	39	52	59	60	67	69	68	69	54	50	35	58	
	Great Falls .....	20	54	61	66	64	64	64	80	77	67	61	47	50	64
Neb. .... Omaha .....	26	54	54	52	59	60	65	76	71	69	68	53	48	79	
Nev. .... Reno .....	19	64	68	71	77	78	83	91	93	91	80	71	61	78	
N.H. .... Concord .....	20	48	52	49	48	50	57	62	59	54	52	41	47	52	
N.J. .... Atlantic City .....	1	51	44	58	62	51	59	58	55	64	62	60	48	57	
N. Mex. .... Albuquerque .....	22	70	72	73	76	79	84	76	76	82	79	78	70	77	
N.Y. .... Albany .....	23	44	51	53	52	56	61	65	62	58	55	39	39	54	
	Buffalo .....	18	34	41	48	51	58	68	70	68	62	55	30	30	54
N.C. .... New York <sup>2</sup> .....	85	50	56	59	60	61	65	66	64	64	61	53	50	59	
	Charlotte .....	11	56	57	60	68	68	72	70	70	67	70	62	59	66
N. Dak. .... Raleigh .....	7	61	57	60	63	58	61	69	64	59	64	61	61	61	
	Bismarck .....	22	54	56	57	59	61	62	75	72	64	60	46	40	61
Ohio. .... Cincinnati <sup>1</sup> .....	46	41	45	51	56	62	69	71	68	68	60	46	40	58	
	Cleveland .....	20	27	34	45	50	58	65	68	66	61	55	33	28	51
	Columbus .....	10	37	41	46	52	60	68	69	71	72	61	45	34	57
Oklahoma. .... Oklahoma City .....	9	56	57	60	60	64	75	77	80	79	67	64	50	67	
Oreg. .... Portland <sup>1</sup> .....	12	22	30	34	47	48	48	69	61	58	38	32	21	45	
Pa. .... Philadelphia .....	19	48	54	57	57	58	64	63	61	61	59	53	52	57	
	Pittsburgh .....	9	30	38	50	50	55	65	65	63	60	49	39	35	
R.I. .... Providence .....	8	55	56	58	54	58	60	61	60	60	58	53	55	57	
S.C. .... Columbia .....	8	63	62	63	72	67	70	69	72	64	65	66	67	66	
S. Dak. .... Sioux Falls <sup>2</sup> .....	19	55	59	59	61	57	61	71	71	65	63	56	53	62	
Tenn. .... Memphis .....	11	43	49	52	61	68	72	73	77	74	70	60	49	64	
	Nashville .....	20	37	45	51	59	61	67	64	64	65	63	53	40	57
Tex. .... Dallas .....	21	48	50	56	58	63	75	78	77	74	65	63	54	66	
	El Paso .....	19	75	80	82	86	88	88	78	80	83	83	77	82	
	Houston .....	23	46	45	51	54	63	70	69	68	64	67	57	48	59
Utah. .... Salt Lake City .....	24	48	52	61	67	73	79	82	82	83	72	55	46	68	
Vt. .... Burlington .....	18	37	44	49	45	52	58	62	61	53	48	30	31	49	
Va. .... Norfolk .....	8	60	58	61	65	66	69	66	62	63	60	63	62	63	
	Richmond .....	11	50	53	57	62	65	68	70	64	65	59	54	61	61
Wash. .... Seattle <sup>1</sup> .....	28	28	33	42	47	52	49	63	56	53	36	29	24	45	
	Spokane .....	14	26	36	52	62	62	67	82	78	71	51	33	22	57
W. Va. .... Charleston <sup>2</sup> .....	64	30	36	42	49	56	60	63	60	60	53	37	29	48	
Wis. .... Milwaukee .....	21	42	44	49	53	57	62	70	66	62	57	42	39	55	
Wyo. .... Cheyenne .....	26	62	63	63	58	57	66	69	66	66	69	62	58	64	
P.R. .... San Juan .....	6	69	72	71	63	62	54	62	63	52	62	62	58	63	

<sup>1</sup> City office data.<sup>2</sup> Data not available; figures are for a nearby station.<sup>3</sup> New York-Central Park data.

## Area, Geography, and Climate

## No. 251. AVERAGE RELATIVE HUMIDITY,

[Airport data except as noted. Values adjusted to represent observations taken at present standard location.  
approximation of average highest and average lowest humidity values.]

STATION	Length of rec- ord (yrs.)	JAN.		FEB.		MAR.		APR.		MAY		JUNE	
		7:00 a.m.	1:00 p.m.										
Ala. .... Mobile	20	87	62	86	60	85	57	87	55	87	55	88	58
Alaska. .... Juneau	18	80	80	81	79	82	77	86	72	88	72	87	72
Ariz. .... Phoenix	22	74	47	71	41	61	33	53	27	43	20	39	19
Ark. .... Little Rock	17	80	66	80	61	78	57	80	54	84	57	85	56
Calif. .... Los Angeles <sup>1</sup>	21	64	45	70	46	74	47	78	50	81	52	85	54
Calif. .... Sacramento <sup>1</sup>	22	90	82	88	75	85	64	85	57	82	51	77	45
Calif. .... San Francisco <sup>1</sup>	22	87	78	86	75	84	69	86	69	87	67	88	66
Colo. .... Denver	1	59	43	71	42	73	49	65	38	78	54	72	34
Conn. .... Hartford	2	76	59	75	60	75	54	74	52	80	54	77	52
Del. .... Wilmington	14	76	62	77	60	75	55	75	52	77	54	79	53
D.C. .... Washington	20	73	57	71	52	71	49	70	46	75	52	76	53
Fla. .... Jacksonville	25	88	56	86	52	85	49	84	47	82	48	84	54
Fla. .... Miami <sup>2</sup>	19	86	55	85	56	89	55	81	56	81	59	83	63
Ga. .... Atlanta	1	72	50	81	61	78	55	74	49	83	60	80	64
Hawaii. .... Honolulu	15	80	80	78	78	77	74	75	71	75	69	74	68
Idaho. .... Boise	2	82	76	79	71	75	61	70	45	70	46	54	33
Ill. .... Chicago	19	81	70	80	67	78	60	75	53	74	53	77	53
Ind. .... Peoria	19	82	72	82	69	81	61	79	55	80	56	83	59
Iowa. .... Indianapolis	19	83	72	83	68	82	61	80	57	80	56	83	58
Iowa. .... Des Moines	21	79	71	81	70	82	64	79	54	81	56	84	60
Kans. .... Wichita	8	81	64	82	62	78	55	78	50	84	57	85	53
Ky. .... Louisville	1	85	66	85	73	84	70	82	62	88	60	92	64
La. .... New Orleans <sup>1</sup>	38	85	67	85	64	83	60	84	59	83	59	83	60
Maine. .... Portland	20	80	65	80	61	77	60	75	57	75	59	78	60
Md. .... Baltimore <sup>1</sup>	8	75	59	78	59	74	52	75	50	76	52	78	53
Mass. .... Boston	10	70	59	71	59	69	55	70	55	69	54	70	56
Mich. .... Detroit	28	81	70	81	67	79	61	75	53	72	52	74	53
Minn. .... Sault Ste. Marie	20	84	74	85	75	85	69	80	61	80	57	85	63
Minn. .... Duluth	19	78	73	79	69	82	67	80	59	79	55	85	61
Miss. .... Minneapolis-St. Paul	21	81	71	81	68	81	63	76	52	76	50	80	56
Miss. .... Jackson	6	83	61	84	61	83	56	86	53	88	56	91	58
Mo. .... Kansas City	26	78	64	77	61	75	55	74	51	79	54	79	54
Mo. .... St. Louis	2	80	67	75	60	79	59	74	54	80	56	86	56
Mont. .... Great Falls	20	66	62	69	62	71	58	68	46	70	46	72	47
Nebr. .... Omaha	7	78	66	80	65	78	59	75	47	78	52	82	54
Nev. .... Reno	22	81	67	80	60	76	46	73	37	75	34	75	31
N.H. .... Concord	20	78	60	78	56	75	53	74	49	74	48	78	51
N.J. .... Atlantic City	3	78	58	78	58	78	54	77	48	79	51	81	53
N. Mex. .... Albuquerque	1	67	48	65	43	55	36	48	28	40	23	44	26
N.Y. .... Albany	15	79	66	78	62	77	58	74	51	73	51	76	52
N.Y. .... Buffalo	1	79	72	82	75	78	67	82	74	80	60	80	67
N.C. .... New York <sup>2</sup>	42	68	61	68	59	68	56	68	53	71	54	74	56
N.C. .... Charlotte	1	76	46	81	60	81	54	80	50	86	57	95	64
N. Dak. .... Bismarck	19	77	71	78	70	83	68	83	52	79	48	81	55
Ohio. .... Cincinnati	14	81	69	80	64	77	57	75	53	78	52	81	54
Ohio. .... Cleveland	1	76	67	85	71	80	66	83	66	74	58	83	61
Ohio. .... Columbus	2	77	68	81	73	75	62	78	58	84	61	86	56
Oklahoma. .... Oklahoma City	7	83	66	84	66	78	57	78	52	86	60	88	59
Oreg. .... Portland <sup>1</sup>	21	86	81	87	80	87	71	87	67	87	66	86	66
Pa. .... Philadelphia	2	76	60	74	60	72	57	73	49	78	58	77	57
R.I. .... Providence	8	70	58	73	57	71	53	73	54	78	57	83	58
S.C. .... Columbia	14	85	54	86	53	83	49	81	45	81	47	82	48
S. Dak. .... Sioux Falls	13	71	63	75	63	77	64	76	47	78	49	82	53
Tenn. .... Memphis	22	81	65	81	62	79	57	79	53	82	55	84	56
Tenn. .... Nashville	22	84	67	83	62	81	57	81	50	84	53	84	53
Tex. .... Dallas	17	81	62	81	61	77	54	82	56	85	56	83	53
Tex. .... El Paso	15	63	44	64	36	45	29	40	26	40	23	44	26
Tex. .... Houston <sup>1</sup>	19	86	65	88	65	85	58	89	60	92	60	91	59
Utah. .... Salt Lake City	2	80	69	83	72	76	53	63	40	62	38	52	24
Vt. .... Burlington	20	79	68	78	65	76	60	74	55	72	53	76	55
Va. .... Norfolk	13	77	60	78	58	74	54	74	50	77	56	78	56
Va. .... Richmond	27	81	58	80	53	78	48	75	46	78	49	80	52
Wash. .... Seattle <sup>1</sup>	22	85	80	85	77	84	70	85	63	85	62	85	63
Wash. .... Spokane	2	88	87	84	81	81	70	75	57	84	61	72	44
W. Va. .... Charleston	14	77	63	76	59	74	53	74	48	82	50	86	55
Wis. .... Milwaukee	3	79	70	81	71	83	66	77	58	77	58	81	58
Wyo. .... Cheyenne <sup>1</sup>	2	56	43	66	52	71	55	67	42	75	45	65	38
P.R. .... San Juan	6	87	66	84	62	83	60	81	64	81	66	82	67

<sup>1</sup> City office data.<sup>2</sup> New York-Central Park data.

## PERCENT—SELECTED CITIES

Eastern standard time. For period of record through 1961. Hours selected to give, for most of country, Relative humidity observations were made on the half-hour prior to 1957.

JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		ANNUAL		STATION
7:00 a.m.	1:00 p.m.													
90	64	91	60	90	61	87	53	84	55	86	62	87	59	Ala... Mobile.
88	79	90	82	91	86	88	55	85	84	82	82	86	79	Alaska... Juneau.
52	31	61	36	56	30	60	32	65	35	70	44	59	33	Ariz... Phoenix.
86	56	86	56	85	53	85	51	81	54	81	62	83	57	Ark... Little Rock.
84	49	84	49	78	47	76	46	60	38	62	42	75	47	Calif... Los Angeles, <sup>1</sup>
76	47	78	50	75	47	77	54	85	68	89	81	82	60	Sacramento, <sup>1</sup>
90	69	90	70	87	68	86	69	86	72	87	77	87	71	San Francisco.
73	32	76	39	75	48	63	34	70	52	60	42	70	42	Colo... Denver.
83	54	85	57	88	50	87	53	82	56	79	59	80	56	Conn... Hartford.
81	54	85	57	87	56	85	55	82	57	78	60	80	56	Del... Wilmington.
77	53	81	55	82	55	82	54	77	52	72	55	76	53	D.C... Washington.
86	57	89	59	90	61	90	57	89	55	88	58	87	54	Fla... Jacksonville.
84	64	86	63	88	65	88	64	87	60	86	59	85	60	Miami.
87	62	88	63	86	58	77	42	84	54	81	61	81	57	Ga... Atlanta.
74	69	75	70	75	70	76	72	77	74	77	75	76	73	Hawaii... Honolulu.
45	31	54	37	60	42	70	52	76	64	79	73	68	53	Idaho... Boise.
78	51	83	53	82	51	80	52	79	62	80	68	79	58	Ill... Chicago.
84	55	87	54	87	52	87	53	84	64	83	71	83	60	Peoria.
85	56	87	56	86	53	84	53	82	64	83	71	84	60	Ind... Indianapolis.
81	50	79	48	78	49	81	54	76	52	80	59	80	54	Iowa... Des Moines.
89	64	91	60	91	60	87	56	84	67	70	80	87	64	Kans... Wichita.
84	63	85	63	85	62	82	59	82	60	85	66	84	62	Ky... Louisville.
80	59	83	58	86	61	86	60	86	65	82	62	81	61	La... New Orleans. <sup>1</sup>
81	54	85	58	87	57	84	55	80	54	77	58	79	55	Maine... Portland.
73	54	75	56	78	57	78	57	75	57	69	57	72	56	Md... Baltimore. <sup>1</sup>
75	51	81	53	83	54	83	55	80	64	81	70	70	59	Mass... Boston.
89	62	91	62	92	67	89	66	87	76	86	79	86	68	Mich... Detroit.
88	61	91	63	92	64	87	62	85	75	80	74	84	65	Minn... Sault Ste. Marie.
82	53	85	56	85	55	81	55	82	67	82	73	81	60	Duluth.
91	59	92	57	92	59	90	55	85	65	84	60	87	53	Minneapolis-St. Paul.
70	49	78	51	79	49	76	49	74	55	77	63	77	55	Miss... Jackson.
85	61	88	59	86	57	83	57	79	58	82	67	81	59	Mo... Kansas City.
63	36	62	37	64	43	63	47	66	57	65	59	67	50	St. Louis.
85	54	85	56	82	54	80	51	77	58	78	64	80	57	Mont... Great Falls.
72	26	74	27	75	32	78	42	80	54	82	67	77	44	Nebr... Omaha.
80	50	86	52	88	54	86	51	83	59	70	58	80	53	Nev... Reno.
86	59	89	61	89	57	86	56	84	60	79	59	82	56	N.H... Concord.
60	37	67	44	67	42	49	31	71	64	72	54	59	39	N.J... Atlantic City.
77	51	84	53	88	55	87	55	81	63	80	65	80	57	N.Mex... Albuquerque.
87	67	89	68	83	59	79	58	78	62	79	69	81	67	N.Y... Albany.
76	57	78	59	80	59	76	56	73	60	69	61	72	59	Buffalo.
96	60	93	62	88	50	84	39	84	50	79	50	85	54	New York. <sup>2</sup>
87	56	91	58	89	58	91	54	79	51	76	54	83	53	N.C... Charlotte.
85	52	84	49	84	50	82	52	82	67	79	71	81	59	Raleigh.
84	54	87	52	85	50	83	52	78	58	80	66	81	57	N.Dak... Bismarck.
85	59	89	62	78	59	70	56	73	60	73	65	79	63	Ohio... Cincinnati.
89	57	92	59	91	56	89	58	85	64	76	67	84	61	Cleveland.
85	56	85	52	84	54	83	55	77	52	79	61	83	58	Okla... Columbus.
84	62	86	65	88	67	91	79	89	82	88	84	87	73	Oklahoma City.
81	57	80	61	84	59	88	55	82	56	76	59	78	57	Oreg... Portland. <sup>1</sup>
87	53	91	61	89	58	83	55	79	62	76	66	81	60	Pa... Philadelphia.
80	57	81	59	85	58	89	56	78	65	73	57	76	56	Pittsburgh.
86	52	89	53	90	55	91	50	88	48	85	53	86	51	R.I... Providence.
83	51	85	53	80	50	75	49	74	56	75	64	78	55	S.C... Columbia.
85	50	87	55	86	53	85	50	81	54	81	62	83	57	S.Dak... Sioux Falls.
86	55	89	55	88	51	88	52	84	57	84	65	85	56	Tenn... Memphis.
79	49	77	47	80	48	82	50	80	52	78	53	80	54	Nashville.
59	36	63	39	57	37	58	37	56	36	61	41	53	34	Tex... Dallas.
92	68	93	58	90	60	89	56	86	57	86	64	89	60	El Paso.
46	22	58	30	67	39	69	44	78	64	82	74	68	47	Houston. <sup>1</sup>
77	54	81	55	84	59	83	60	81	67	79	68	78	60	Burlington.
82	58	85	62	84	61	84	62	81	58	78	58	79	58	Vt... Norfolk.
84	55	87	57	89	55	89	53	84	50	82	55	82	53	Va... Richmond.
84	62	86	67	89	71	90	79	89	81	86	83	86	62	Wash... Seattle. <sup>1</sup>
54	34	60	43	66	48	80	66	84	79	85	84	76	62	Spokane.
89	63	92	56	90	52	88	53	78	54	77	60	82	56	W. Va... Charleston.
86	59	86	61	86	58	83	62	81	68	81	71	82	63	Wis... Milwaukee.
66	31	62	32	67	36	58	38	58	43	62	48	64	42	Wyo... Cheyenne. <sup>1</sup>
81	67	82	66	83	67	85	67	87	67	87	68	84	66	P.R... San Juan.

## No. 252. AVERAGE HOURLY WIND SPEED—SELECTED CITIES

[Airport data unless otherwise noted. Values adjusted to represent observations taken at the present standard location. For period of record through 1961. True velocities in miles per hour]

STATION	Length of record (yrs.)	AVERAGE HOURLY WIND SPEED												Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Ala.....Mobile.....	13	11.6	11.7	11.9	11.0	9.6	8.5	7.6	7.7	9.1	9.3	10.7	11.0	10.0
Alaska.....Juneau.....	18	8.3	8.5	8.9	8.8	8.0	7.8	7.7	7.6	7.7	9.3	8.8	9.4	8.4
Ariz.....Phoenix.....	16	4.4	5.0	5.8	6.0	6.1	6.1	6.3	5.7	5.4	5.0	4.5	4.2	5.4
Ark.....Little Rock.....	19	9.0	9.4	10.2	9.9	8.4	7.9	7.3	6.9	7.3	7.1	8.4	8.5	8.4
Calif.....Los Angeles <sup>1</sup> .....	21	6.8	6.9	6.9	6.6	6.3	5.7	5.4	5.3	5.3	5.7	6.5	6.8	6.2
Sacramento <sup>1</sup> .....	13	9.4	9.1	10.2	9.6	10.2	10.9	10.1	9.7	8.7	7.9	7.9	7.9	9.2
San Francisco <sup>1</sup> .....	25	6.8	7.4	8.5	9.5	10.3	11.0	11.2	10.6	9.1	7.6	6.3	6.5	8.7
Colo.....Denver.....	13	9.8	10.0	10.7	11.0	10.0	9.8	9.0	8.6	8.6	8.6	9.5	9.8	9.6
Conn.....Hartford.....	7	10.8	10.7	11.3	11.5	10.4	9.2	8.1	8.2	8.2	9.2	9.5	9.6	9.7
Del.....Wilmington.....	13	9.5	10.0	11.0	10.3	8.7	8.3	7.5	7.2	7.5	7.9	8.7	8.7	8.8
D.C.....Washington.....	13	10.7	11.0	11.8	11.3	9.7	9.3	8.5	8.3	8.6	9.0	9.5	9.6	9.8
Fla.....Jacksonville.....	12	8.5	9.8	9.6	9.6	9.2	8.8	7.9	7.8	9.1	9.2	8.4	8.4	8.9
Miami.....	12	9.3	9.9	9.9	10.2	9.1	8.1	7.7	7.2	8.1	8.6	9.0	8.5	8.8
Ga.....Atlanta.....	23	11.4	11.8	11.8	10.9	9.1	8.4	7.8	7.5	8.4	8.7	9.6	10.3	9.6
Hawaii.....Honolulu <sup>1</sup> .....	12	10.0	11.0	11.5	12.2	12.9	13.3	13.7	14.0	11.8	11.0	11.4	11.4	12.0
Idaho.....Boise.....	22	8.9	9.8	10.8	10.4	9.7	9.4	8.7	8.4	8.5	9.0	8.9	8.7	9.3
Ill.....Chicago.....	19	11.1	11.4	11.6	11.4	10.2	9.0	7.8	7.6	8.7	9.4	11.1	10.1	10.1
Peoria.....	18	11.4	11.9	12.6	12.6	10.7	9.4	8.2	8.0	9.1	9.7	11.9	11.2	10.6
Ind.....Indianapolis.....	13	11.9	12.1	13.0	12.7	10.8	9.0	7.9	7.5	8.7	9.8	11.9	11.4	10.6
Iowa.....Des Moines.....	12	12.3	12.5	14.2	14.5	12.4	11.3	10.5	9.5	9.2	10.4	11.3	12.4	12.0
Kans.....Wichita.....	8	13.1	13.6	14.9	15.2	13.8	13.1	11.5	12.1	12.8	13.0	13.4	12.8	13.3
Ky.....Louisville.....	14	10.0	9.9	10.6	10.4	8.1	7.3	6.7	6.0	6.9	7.2	9.4	9.2	8.5
La.....New Orleans <sup>1</sup> .....	46	7.5	7.6	7.8	7.5	6.7	5.9	5.6	5.6	6.7	6.9	7.2	7.3	6.9
Maine.....Portland.....	21	9.5	9.7	10.3	10.2	9.2	8.3	7.7	7.6	7.9	8.8	9.1	9.2	9.0
Md.....Baltimore <sup>1</sup> .....	24	10.3	10.8	11.5	11.3	10.0	9.5	8.8	8.6	8.9	9.2	10.0	9.9	9.9
Mass.....Boston.....	4	14.6	14.4	14.2	12.8	11.8	11.4	10.2	10.3	10.8	12.5	13.5	13.9	12.5
Mich.....Detroit.....	28	11.4	11.4	11.5	11.1	9.7	9.1	8.2	8.0	8.9	9.5	11.5	11.3	10.1
Sault Ste. Marie.....	20	10.1	10.3	10.8	11.1	10.5	9.1	8.4	8.3	9.3	9.8	10.6	10.4	9.9
Minn.....Duluth.....	12	12.6	13.0	13.3	14.9	13.6	11.6	10.6	10.4	11.9	12.4	13.6	12.3	12.5
Minneapolis.....St. Paul.....	23	10.5	10.8	11.5	12.6	11.7	11.1	9.4	9.2	10.4	10.7	11.5	10.7	10.8
Miss.....Jackson.....	6	7.8	8.0	8.1	7.7	6.3	5.4	4.6	4.4	5.5	5.2	6.8	7.1	6.4
Mo.....Kansas City.....	22	10.1	10.6	12.0	10.6	10.3	10.4	9.1	8.9	9.4	9.2	10.8	10.1	10.2
St. Louis.....	12	10.0	10.8	11.7	11.4	9.6	8.3	7.3	6.8	7.0	8.1	10.0	10.2	9.3
Mont.....Great Falls.....	20	16.8	15.9	14.2	13.9	12.0	12.1	10.9	10.9	12.2	14.4	16.2	17.3	13.9
Nebr.....Omaha.....	26	11.4	11.8	13.2	13.7	11.8	11.0	9.4	9.7	10.2	10.5	11.8	11.3	11.3
Nev.....Reno.....	19	6.1	6.4	7.8	8.0	7.7	7.4	6.5	6.2	5.5	5.5	5.1	4.9	6.4
N.H.....Concord.....	20	7.3	7.9	8.2	7.8	7.0	6.3	5.6	5.2	5.4	6.0	6.7	6.9	6.7
N.J.....Atlantic City.....	3	13.6	13.8	14.2	13.6	11.6	10.6	9.6	9.0	10.3	12.2	13.2	12.7	12.0
N. Mex.....Albuquerque.....	22	8.0	8.9	10.1	10.9	10.4	9.8	9.2	8.0	8.5	8.2	7.8	7.4	8.0
N.Y.....Albany.....	23	9.9	10.6	10.6	10.5	9.1	8.1	7.3	6.8	7.3	8.0	8.9	8.9	8.8
Buffalo.....	22	14.9	14.7	14.7	13.7	12.4	11.9	11.1	10.6	11.4	12.1	13.9	14.4	13.0
New York <sup>2</sup> .....	42	11.1	11.1	11.3	10.8	9.0	8.4	7.8	7.9	8.3	9.3	10.2	10.6	9.7
N.C.....Charlotte.....	12	8.5	8.7	9.3	9.5	7.7	7.0	6.7	6.8	7.4	7.5	7.5	7.8	7.8
Raleigh.....	12	8.3	8.7	9.3	9.3	7.5	6.8	6.5	6.5	6.9	7.2	7.3	7.5	7.7
N. Dak.....Bismarck.....	22	10.2	10.4	11.7	13.1	12.7	11.8	10.0	10.3	10.9	10.5	11.0	9.8	11.0
Ohio.....Cincinnati <sup>1</sup> .....	40	8.3	8.5	9.1	8.5	6.8	6.6	5.3	5.1	5.5	6.1	7.9	8.0	7.1
Cleveland.....	20	12.6	12.9	13.1	12.4	10.8	9.7	9.0	8.6	9.5	10.3	12.8	12.8	11.2
Columbus.....	12	9.9	10.0	10.6	10.0	8.1	6.9	6.0	5.6	6.3	7.1	9.4	9.2	8.3
Oklahoma City.....	13	14.8	14.8	16.2	16.2	14.4	14.0	12.1	11.6	12.7	13.1	13.8	14.0	14.0
Oreg.....Portland <sup>1</sup> .....	13	10.4	8.8	8.4	7.1	6.5	6.5	5.7	6.6	5.9	6.2	7.9	9.5	7.6
Pa.....Philadelphia.....	21	10.3	11.0	11.6	11.2	9.7	8.9	8.2	7.7	8.1	8.9	9.5	10.0	9.6
Pittsburgh.....	9	10.9	11.2	11.5	11.2	9.5	8.5	7.7	7.4	8.1	8.8	10.4	10.8	9.7
R.I.....Providence.....	8	11.9	11.8	12.7	13.1	11.7	10.8	10.2	10.1	10.2	10.5	11.1	11.1	11.3
S.C.....Columbia.....	13	7.1	7.6	8.6	8.9	7.0	6.8	6.7	5.9	6.2	6.1	6.3	6.9	6.9
S. Dak.....Sioux Falls.....	13	10.9	11.0	12.5	13.5	12.0	10.5	9.2	9.2	10.3	10.8	10.2	10.7	11.1
Tenn.....Memphis.....	13	11.4	11.1	11.7	11.2	9.3	8.2	7.7	7.0	7.9	8.0	9.8	10.3	9.5
Nashville.....	20	9.0	9.1	9.6	9.1	7.3	6.7	6.0	5.6	6.1	6.0	8.2	8.3	7.6
Tex.....Dallas.....	21	10.2	11.0	12.6	13.3	12.1	12.2	10.0	9.6	9.4	9.1	10.2	10.2	10.8
El Paso.....	19	10.3	11.3	13.3	13.1	12.3	11.2	9.9	9.4	9.3	9.2	9.8	9.7	10.7
Houston <sup>1</sup> .....	23	10.7	11.2	11.7	12.0	10.7	9.7	8.3	8.3	8.8	9.3	10.3	10.2	10.1
Salt Lake City.....	32	7.4	8.2	9.1	9.4	9.5	9.4	9.4	9.7	9.1	8.6	7.7	7.4	8.7
Burlington.....	18	9.9	9.7	9.5	9.6	9.1	8.5	8.0	7.5	8.4	8.8	9.9	10.1	9.1
Vt.....Norfolk.....	13	11.1	11.8	12.3	11.8	9.6	9.0	8.3	8.6	9.4	10.4	10.6	10.6	10.3
Richmond.....	13	8.1	8.5	9.0	9.0	7.7	7.3	7.0	6.7	7.0	7.2	7.5	7.4	7.7
Wash.....Seattle.....	11	7.8	8.0	8.6	8.3	7.7	7.6	7.2	6.8	6.5	6.8	7.1	7.6	7.5
Spokane.....	14	7.9	8.9	9.3	9.3	8.2	8.4	7.7	7.6	7.6	7.5	7.6	8.4	8.2
W. Va.....Charleston.....	14	7.9	8.2	9.0	8.2	6.5	5.8	5.3	4.4	4.9	5.3	7.2	7.3	6.7
Wis.....Milwaukee.....	21	13.1	13.3	13.9	13.8	12.7	10.8	9.7	9.8	11.2	11.9	13.6	13.1	12.2
Wyo.....Cheyenne.....	26	14.4	14.7	14.7	13.9	12.1	11.3	9.8	9.8	10.6	11.4	13.9	14.6	12.6
P.R.....San Juan.....	6	8.9	9.3	9.1	8.4	8.1	8.4	9.5	9.0	7.5	6.7	7.1	8.2	8.4

<sup>1</sup> City office data.<sup>2</sup> New York-Central Park data.

## No. 253. NORMAL MONTHLY AND ANNUAL DEGREE DAYS, 65° BASE—SELECTED CITIES

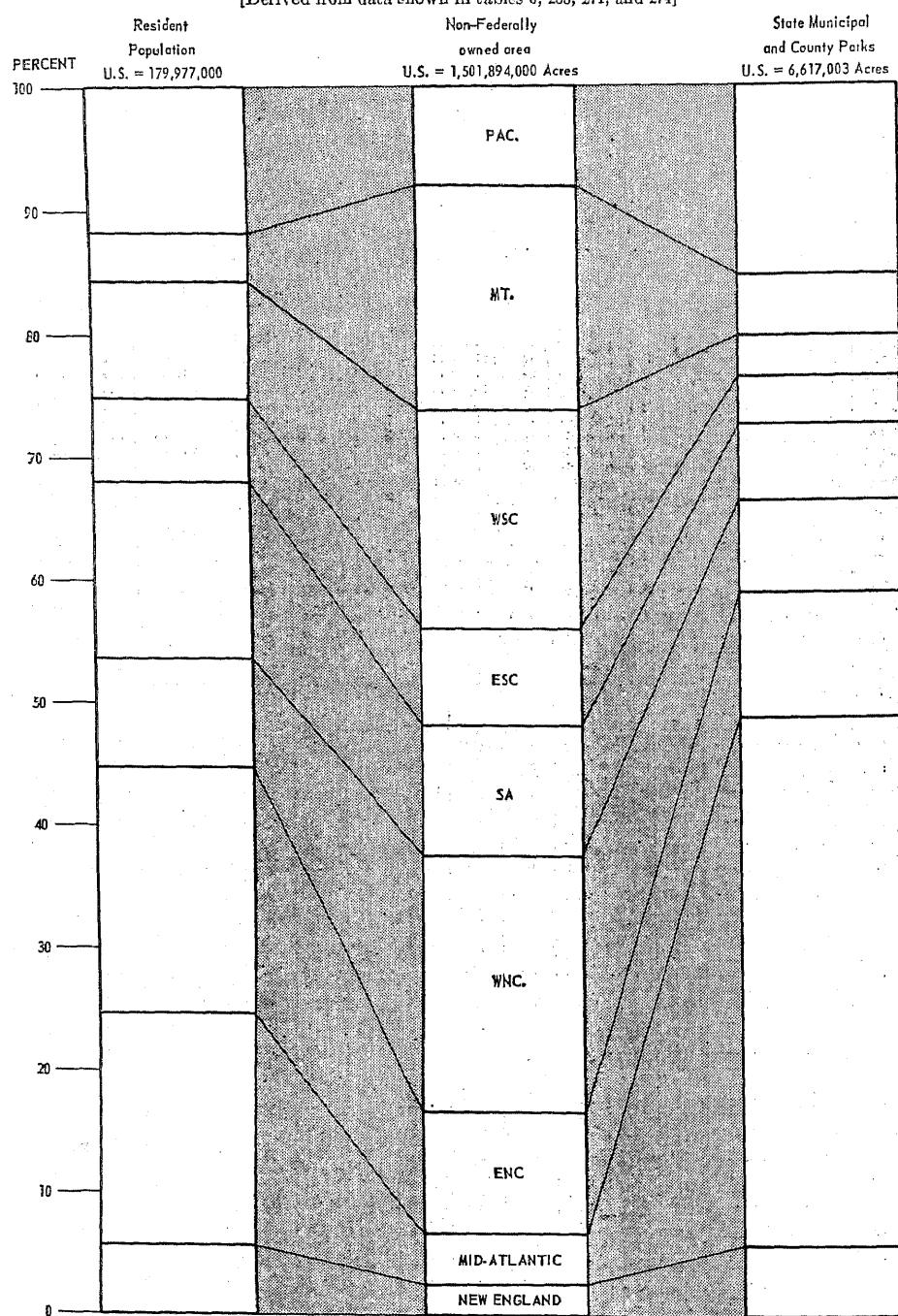
[Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.--- Mobile	422	314	226	51	0	0	0	0	0	31	234	331	1,659
Alaska--- Juneau	1,237	1,073	1,073	810	601	381	301	338	483	725	921	1,135	9,075
Ariz.--- Phoenix	443	302	189	57	0	0	0	0	0	16	207	384	1,598
Ark.--- Little Rock	756	577	434	126	9	0	0	0	9	127	465	716	3,219
Calif.--- Los Angeles <sup>1</sup>	310	230	202	123	68	18	0	0	6	31	132	229	1,349
Sacramento <sup>1</sup>	561	392	310	173	76	0	0	0	0	62	312	533	2,419
San Francisco <sup>1</sup>	443	336	319	279	230	180	192	174	102	118	231	388	3,001
Colo.--- Denver	1,085	910	840	528	279	60	0	0	105	403	774	989	5,982
Conn.--- Hartford	1,190	1,042	908	519	205	33	0	12	117	394	714	1,101	6,235
Del.--- Wilmington	980	874	735	387	112	6	0	0	51	270	588	927	4,930
D.C.--- Washington	871	762	626	288	74	0	0	0	33	217	519	834	4,224
Fla.--- Jacksonville	332	246	174	21	0	0	0	0	0	12	144	310	1,230
Miami	74	56	19	0	0	0	0	0	0	0	0	65	214
Ga.--- Atlanta	636	518	428	147	25	0	0	0	18	124	417	648	2,961
Hawaii--- Honolulu	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho.--- Boise	1,128	868	738	453	264	96	0	0	120	384	777	1,017	5,835
Ill.--- Chicago	1,206	1,039	890	477	208	42	0	0	75	316	750	1,110	6,113
Peoria	1,218	1,025	849	426	183	33	0	6	87	326	759	1,113	6,025
Ind.--- Indianapolis	1,113	949	809	432	177	39	0	0	90	316	723	1,051	5,690
Iowa.--- Des Moines	1,355	1,123	930	453	189	36	0	6	96	347	813	1,194	6,542
Kans.--- Wichita	1,023	804	645	270	87	6	0	0	33	229	618	905	4,620
Ky.--- Louisville	946	818	682	315	105	9	0	0	63	257	624	905	4,724
La.--- New Orleans <sup>1</sup>	338	232	171	18	0	0	0	0	0	147	276	1,182	
Maine.--- Portland	1,339	1,182	1,042	675	372	111	12	53	195	508	807	1,215	7,511
Md.--- Baltimore <sup>1</sup>	859	762	629	288	65	0	0	0	27	189	486	806	4,111
Mass.--- Boston	1,088	972	846	513	208	36	0	9	60	316	603	983	5,634
Mich.--- Detroit	1,181	1,058	936	537	236	48	0	0	93	360	738	1,088	6,275
Sault Ste. Marie	1,541	1,394	1,293	825	493	213	109	118	204	611	981	1,383	9,255
Minn.--- Duluth	1,745	1,504	1,339	474	186	65	99	315	648	1,146	1,581	9,927	
Minneapolis-St. Paul	1,631	1,375	1,159	609	270	84	16	81	186	524	1,035	1,463	8,302
Miss.--- Jackson	546	414	310	87	0	0	0	0	0	65	315	502	2,239
Kansas City	1,023	812	651	270	93	0	0	0	24	186	573	887	4,510
St. Louis	1,026	834	688	297	102	6	0	0	51	242	627	936	4,809
Mont.--- Great Falls	1,333	1,140	1,048	627	353	171	22	47	249	512	891	1,138	7,531
Nebr.--- Omaha	1,324	1,078	871	405	164	30	0	6	90	322	783	1,141	6,218
Nev.--- Reno	1,024	843	778	537	360	171	34	68	171	477	789	908	6,240
N.H.--- Concord	1,358	1,184	1,032	636	298	75	6	50	177	505	822	1,240	7,383
N.J.--- Atlantic City	936	848	741	420	133	15	0	0	39	251	549	880	4,812
N.Mex.--- Albuquerque	930	703	580	288	81	0	0	0	12	214	627	868	4,303
N.Y.--- Albany	1,311	1,156	992	564	239	45	0	19	138	440	777	1,194	6,875
Buffalo	1,287	1,173	1,070	600	344	78	19	37	141	440	792	1,172	7,213
New York <sup>1</sup>	986	885	760	408	118	9	0	0	30	233	540	893	4,862
N.C.--- Charlotte	670	568	465	153	22	0	0	0	12	136	423	676	3,125
Raleigh	725	616	487	180	34	0	0	0	21	144	450	716	3,393
N.Dak.--- Bismarck	1,739	1,470	1,234	660	338	117	25	25	222	583	1,098	1,494	9,005
Ohio.--- Cincinnati <sup>1</sup>	970	837	701	336	118	9	0	0	54	248	612	921	4,806
Cleveland	1,159	1,033	918	552	260	66	6	23	123	415	768	1,104	6,432
Columbus	1,057	921	778	411	158	27	0	6	72	322	684	1,008	5,444
Oklahoma City	884	678	538	213	50	0	0	0	15	174	513	781	3,844
Oreg.--- Portland <sup>1</sup>	769	594	536	351	198	78	12	16	75	267	538	679	4,109
Pa.--- Philadelphia	1,016	862	716	375	99	0	0	0	48	251	570	911	4,848
Pittsburgh	1,119	1,002	874	480	195	39	0	9	105	375	726	1,063	5,987
R.I.--- Providence	1,110	988	868	534	236	51	0	16	96	372	660	1,023	5,954
S.C.--- Columbia	570	470	357	81	0	0	0	0	84	345	577	2,484	
S. Dak.--- Sioux Falls	1,544	1,285	1,082	573	270	78	19	25	168	402	972	1,361	7,839
Tenn.--- Memphis	713	571	440	135	16	0	0	0	15	127	432	667	3,116
Nashville	778	644	512	189	40	0	0	0	30	158	495	732	3,578
Tex.--- Dallas	601	440	319	90	6	0	0	0	0	62	321	524	2,363
El Paso	654	431	319	105	0	0	0	0	0	68	384	617	2,578
Houston <sup>1</sup>	363	258	174	30	0	0	0	0	0	0	288	1,278	
Utah--- Salt Lake City	1,141	896	763	453	248	87	0	0	75	388	804	1,035	5,890
Vt.--- Burlington	1,451	1,277	1,110	654	295	66	16	43	171	508	846	1,302	7,739
Va.--- Norfolk	738	655	533	216	37	0	0	0	0	136	408	698	3,421
Richmond	815	703	577	246	56	0	0	0	36	202	495	784	3,014
Wash.--- Seattle <sup>1</sup>	738	599	577	396	242	117	60	47	129	329	543	657	4,424
Spokane	1,231	980	834	531	298	147	19	34	189	508	894	1,097	6,762
W. Va.--- Charleston	880	770	639	300	102	9	0	0	66	254	576	849	4,445
Wis.--- Milwaukee	1,376	1,193	1,054	642	372	135	43	47	174	471	876	1,252	7,635
Wyo.--- Cheyenne	1,212	1,042	1,026	702	428	150	23	37	219	543	909	1,085	7,381
P.R.--- San Juan <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0

<sup>1</sup> City office data.

Source: Department of Commerce, Weather Bureau; records.

**FIG. XII. PERCENT DISTRIBUTION OF RESIDENT POPULATION AND NON-FEDERALLY OWNED TOTAL AND PARK AREA—GEOGRAPHIC DIVISIONS: 1960**  
 [Derived from data shown in tables 6, 255, 271, and 274]



Source: Chart prepared by Department of Commerce, Bureau of the Census. Data from Bureau of the Census; General Services Administration; Department of the Interior, National Park Service; and National Recreation Association.

## Section 7

### Public Lands, Parks, and Recreation

Statistics in this section relate to the Federal public domain and other Federally owned and leased real property, national parks and forests, State and municipal parks, foreign and domestic travel, and other forms of recreation.

Public lands statistics are published primarily by the Department of the Interior, Bureau of Land Management, in *Public Land Statistics* (formerly *Statistical Appendix to the Annual Report of the Director*). Data on Federally owned land and real property are collected by the General Services Administration and presented in its annual *Inventory Report on Real Property Owned by the United States Throughout the World*. The Economic Research Service of the Department of Agriculture also compiles and issues statistics on land use and land ownership.

The National Park Service of the Department of the Interior publishes information on national parks in its annual report, *Areas Administered by the National Park Service* and its monthly report, *Public Use, National Parks and Related Areas*; and on State park systems in its annual report, *State Park Statistics*. Data for municipal parks and playgrounds, as well as for other outdoor recreational activities, have been compiled by a private agency, Resources for the Future, Inc., Washington, D.C., and published in *Statistics on Outdoor Recreation* (1958). The Forest Service collects, and issues in its *Annual Report of the Chief*, figures for recreational uses of the national forests. The Fish and Wildlife Service compiles data for hunting and fishing. Figures on expenditures for recreation and on domestic and foreign travel are compiled by the Department of Commerce and appear periodically in the monthly *Survey of Current Business* and in other reports.

**Public-domain and acquired lands.**—The U.S. Government acquired sovereignty over its present land area through a series of international agreements and treaties, but did not gain title to all of this land by such agreements. At the time of acquisition of U.S. sovereignty over the areas involved (now 2,271 million acres) title to about 463 million acres rested in individual States and their political subdivisions or in private owners, and was not relinquished to the U.S. Government. Title to the remaining land area passed to the U.S. Government. This area, with the exception of lands in the District of Columbia, is known as the original public domain.

Public-domain lands or public lands refer to those Federally owned lands to which the general body of public land laws applies. In general, these lands include that portion of the original public domain not disposed of under the public land laws, and certain other lands declared by the Congress specifically to be public lands.

In addition to the original public domain, the U.S. Government has from time to time acquired, by purchase, condemnation, and gift, tracts of land needed for public purposes. Such lands are referred to as acquired lands, to distinguish them from public-domain lands.

**Indian lands.**—Indian lands refer to public-domain lands ceded to the Government by Indian tribes on condition that proceeds from their sale or other disposition would be earmarked in the Treasury as in trust for the Indians.

**Entries, selections, patents, and certifications.**—The data on entries, selections, patents, and certifications refer to transactions which involve the disposal, under the public land laws (including the homestead laws), of Federal public lands to non-Federal owners. In general, original entries and selections are applications to secure title to

public lands which have been accepted as properly filed. Some types of applications, however, are not reported until the final certificate is issued. Applications become final entries (perfected entries) upon issuance of a final certificate to the applicant after he has complied fully with the requirements of the laws relating to his application. A final certificate passes equitable title to the land to the applicant. Patents are instruments which pass legal title to the land to the applicant. Certifications are issued in lieu of patents in connection with certain State selections.

**Alaska and Hawaii.**—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface. "Conterminous area" refers to the United States excluding Alaska, Hawaii, and outlying areas.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

#### No. 254. AREA AND ACQUISITION OF THE PUBLIC DOMAIN: 1781 TO 1961

[In thousands of acres. Areas are as computed in 1912; hence do not agree with figures in square miles shown in table 224, which includes later adjustments and reflects subsequent remeasurement. See also *Historical Statistics, Colonial Times to 1957*, series J 3-9]

YEAR	Estimated area <sup>1</sup>	YEAR	Estimated area <sup>1</sup>
1802	200,000	1950	412,000
1850	1,200,000	1955	411,000
1880	900,000	1958	410,000
1912	600,000	1959	770,000
1946	413,000	1960	771,000
		1961	772,000
YEAR AND ACQUISITION	Total	Land	Water
Aggregate	1,837,763	1,807,682	30,081
1781-1802 (State Cessions)	236,826	233,416	3,410
1803, Louisiana Purchase <sup>2</sup>	529,912	523,446	6,465
1819, Cession from Spain	46,145	43,343	3,280 <sup>2</sup>
Red River Basin <sup>3</sup>	20,602	29,067	535
1846, Oregon Compromise	183,386	180,644	2,742
1848, Mexican Cession <sup>4</sup>	338,681	334,479	4,202
1850, Purchase from Texas	78,927	78,843	84
1853, Gadsden Purchase	18,989	18,962	27
1867, Alaska Purchase	375,296	365,482	9,814

<sup>1</sup> Estimated from imperfect data available for indicated years. Beginning 1959, includes Alaska.

<sup>2</sup> Data for Louisiana Purchase exclude areas eliminated by Treaty of 1819 with Spain. Such areas are included in figures for Mexican Cession.

<sup>3</sup> Includes 33,920 acres subsequently recognized as part of State of Texas which is not a public domain State.

<sup>4</sup> Represents drainage basin of Red River of the North, south of 49th parallel. Authorities differ as to method and exact date of its acquisition. Some hold it as part of Louisiana Purchase; others maintain it was acquired from Great Britain.

Source: Department of the Interior. Estimated area, Bureau of Land Management; all other data, Office of the Secretary, *Areas of Acquisitions to the Territory of the U.S., 1922*.

# Land and Federal Buildings

199

## No. 255. TOTAL LAND AND FEDERALLY OWNED LAND AND BUILDINGS, BY ACQUISITION AND COST, 1955 TO 1962, AND BY STATES, 1962

[Land in thousands of acres; cost in millions of dollars. As of June 30. Beginning 1959, includes Alaska, except as noted, and beginning 1960, includes Hawaii]

STATE	LAND						FEDERALLY OWNED BUILDINGS	
	Total	Not owned by Federal Government	Owned by Federal Government			Cost <sup>2</sup>	Number	Cost
			Total <sup>1</sup>	Acres	Percent			
1955-----	1,903,825	1,495,929	407,896	21.4		357,210	50,686	2,369
1957-----	1,903,825	1,495,272	408,553	21.5		358,657	49,896	2,512
1958-----	1,903,825	1,495,634	408,191	21.4		358,342	49,849	2,552
1959 <sup>3</sup> -----	2,209,306	1,500,066	768,640	33.8		718,642	49,998	2,732
1960-----	2,273,407	1,501,894	771,512	33.9		720,004	51,508	2,956
1961-----	2,271,343	1,503,577	767,766	33.8		710,877	56,889	3,146
1962								
Total-----	2,271,343	1,500,547	770,797	33.9		719,373	51,424	3,462
Ala-----	32,678	31,596	1,083	3.3		61	1,021	48
Alaska-----	365,482	412	365,069	99.9		365,053	17	2
Ariz-----	72,688	40,150	32,538	44.8		32,242	296	12
Ark-----	33,599	30,574	3,025	9.0		1,073	1,952	57
Calif-----	100,207	55,594	44,613	44.5		42,620	1,994	350
Colo-----	66,486	42,572	23,914	36.0		22,971	942	36
Conn-----	3,135	3,129	7	0.2		-----	7	1,764
Del-----	1,266	1,234	32	2.5		-----	32	1,050
D.C.-----	39	28	11	28.9		-----	11	136
Fla-----	34,721	31,394	3,327	9.6		322	3,005	55
Ga-----	37,295	35,261	2,034	5.5		-----	2,034	105
Hawaii-----	4,106	3,973	233	5.7		-----	233	22
Idaho-----	52,933	18,738	34,195	64.6		33,458	737	25
Ill-----	35,795	35,357	438	1.2		1	437	71
Ind-----	23,158	22,811	347	1.5		(4)	347	28
Iowa-----	35,860	35,717	143	0.4		(4)	143	19
Kans-----	52,511	52,082	428	0.8		27	402	69
Ky-----	25,512	24,445	1,067	4.2		-----	1,067	120
La-----	28,808	27,820	1,048	3.6		26	-----	1,021
Maine-----	19,848	19,718	130	0.7		-----	130	9
Md-----	6,319	6,137	182	2.9		-----	182	41
Mass-----	5,035	4,977	58	1.2		-----	58	64
Mich-----	36,492	33,244	3,248	8.9		200	2,958	25
Minn-----	51,206	47,865	3,341	6.5		1,426	1,915	16
Miss-----	30,223	28,711	1,512	5.0		7	1,505	45
Mo-----	44,248	42,553	1,696	3.8		3	1,693	58
Mont-----	93,271	65,591	27,680	20.7		25,253	2,427	25
Nebr-----	49,032	48,330	701	1.4		250	451	28
Nev-----	70,264	10,217	60,047	85.5		59,834	213	4
N.H.-----	5,769	5,065	704	12.2		-----	704	16
N.J.-----	4,813	4,713	101	2.1		-----	101	46
N. Mex-----	77,766	50,616	27,150	34.9		25,909	1,241	17
N.Y.-----	30,681	30,457	224	0.7		-----	224	135
N.C.-----	31,403	29,503	1,900	6.1		-----	1,900	64
N. Dak-----	44,452	42,446	2,006	4.5		211	1,795	76
Ohio-----	26,222	26,012	210	0.8		(4)	210	98
Okla-----	44,088	42,881	1,207	2.7		175	1,032	175
Oreg-----	61,599	29,630	31,969	51.9		30,454	1,515	209
Pa-----	28,804	28,245	560	1.9		-----	560	116
R.I.-----	677	669	8	1.1		-----	8	7
S.C.-----	19,374	18,247	1,127	5.8		-----	1,127	53
S. Dak-----	48,982	45,491	3,301	6.9		1,604	1,786	88
Tenn-----	26,728	25,177	1,551	5.8		-----	1,551	207
Tex-----	168,218	165,482	2,736	1.6		35,596	2,428	206
Utah-----	52,697	16,673	36,024	68.4		-----	2,428	12
Vt-----	5,087	5,682	255	4.3		-----	255	10
Va-----	25,496	23,363	2,133	8.4		-----	2,133	129
Wash-----	42,694	30,109	12,585	29.5		11,099	1,486	153
W. Va-----	15,411	14,457	953	6.2		-----	953	36
Wis-----	35,011	33,229	1,782	5.1		20	1,763	18
Wyo-----	62,343	32,270	30,073	48.2		29,386	687	53

<sup>1</sup> Excludes trust properties.

<sup>2</sup> Excludes valuation for public domain lands for which there are no costs.

<sup>3</sup> Excludes Department of Defense military functions in Alaska.

<sup>4</sup> Less than 500 acres.

## Public Lands, Parks, and Recreation

## No. 256. OWNERSHIP OF LAND, BY CLASS: 1954 AND 1959

[Land in millions of acres. Includes Alaska and Hawaii. Compiled from Federal and State reports and records. See also table 859. See also *Historical Statistics, Colonial Times to 1957*, series J 65 and J 75]

CLASSES	1954		1959	
	Land	Percent	Land	Percent
Total.....	2,273	100.0	2,271	100.0
Private land <sup>1</sup> .....	1,335	58.7	1,332	58.7
Indian land <sup>2</sup> .....	53	2.3	53	2.3
Public land.....	885	39.0	886	39.0
Federal land <sup>3</sup> .....	766	33.7	765	33.7
State land <sup>4</sup> .....	101	4.5	103	4.5
County and municipal land.....	18	0.8	18	0.8

<sup>1</sup> Land owned by individuals, partnerships, and corporations.

<sup>2</sup> Chiefly trust and tribal land, exclusive of individual holdings and Federal areas used by Indians.

<sup>3</sup> Gross acreage of Federal holdings including highway and road rights-of-way in Federal areas.

<sup>4</sup> Includes the major part of highway and road rights-of-way through predominantly private land areas.

Source: Department of Agriculture, Economic Research Service.

## No. 257. FEDERAL REAL PROPERTY—LAND AND FLOOR AREA OF BUILDINGS: 1955 TO 1962

[As of June 30. Covers Federally owned real property throughout world]

AGENCY	LAND (1,000 acres)				FLOOR AREA OF BUILDINGS (1,000 sq. ft.)			
	1955	1960	1961	1962	1955	1960	1961	1962
Total.....	753,516	772,048	768,284	771,319	n.a.	n.a.	n.a.	n.a.
Agriculture.....	188,668	186,053	186,575	186,605	7,991	20,356	20,620	21,333
Atomic Energy Commission.....	2,003	2,088	2,106	2,106	81,312	74,201	73,919	76,700
Commerce.....	120	8	9	10	14,220	10,176	10,145	9,280
Defense.....	31,278	29,810	27,846	28,100	1,646,114	1,028,832	1,064,076	1,035,906
Army.....	7,861	8,646	8,485	9,875	1,701,280	1,790,054	1,776,970	1,786,675
Air Force.....	14,861	12,487	10,323	9,041	1,373,117	1,564,351	1,604,477	1,595,094
Navy.....	4,623	3,605	3,675	3,525	1,560,879	1,563,129	1,561,910	1,554,525
Corps of Engineers, civil functions.....	3,933	5,173	5,364	5,659	10,838	11,378	11,094	9,454
General Services Administration.....	75	25	13	15	122,526	121,992	131,305	138,855
Housing and Home Finance Agency.....	.22	1	1	(2)	86,808	1,112	1,026	1,015
Interior.....	529,965	552,639	550,304	553,011	50,348	41,702	43,120	43,767
Post Office.....	2	2	2	2	47,803	46,786	47,114	46,670
Tennessee Valley Authority.....	750	696	696	741	2,724	2,794	2,889	3,314
Treasury.....	81	86	81	72	16,141	14,231	13,996	14,318
Veterans Administration.....	46	29	28	27	101,145	114,796	115,031	116,604
Other.....	506	612	624	631	53,518	68,103	72,715	78,339

n.a. Not available.

<sup>1</sup> Excludes floor area of Department of Defense military functions outside conterminous United States.

<sup>2</sup> Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

# Federal Property

201

## No. 258. FEDERAL REAL PROPERTY—LAND, BUILDINGS, AND COST, BY AGENCY AND LOCATION: 1962

[As of June 30]

AGENCY	LAND (1,000 acres)			Number of buildings	COST (\$1,000,000)		
	Total	Urban	Rural		Total	Land	Buildings
	n.a.	n.a.	n.a.		n.a.	n.a.	n.a.
<b>Total</b>	<b>771,319</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>59,045</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Inside U.S. 1</b>	<b>770,797</b>	<b>1,370</b>	<b>769,427</b>	<b>421,727</b>	<b>52,378</b>	<b>3,462</b>	<b>21,870</b>
Agriculture	186,577	2	186,576	22,555	1,331	192	132
Atomic Energy Comm.	2,106	45	2,061	7,045	3,351	76	1,993
Commerce	10	2	8	877	176	28	69
Defense	28,003	1,252	26,751	334,955	35,652	2,057	15,596
Army	9,859	233	9,626	144,449	9,489	221	5,479
Air Force	9,015	120	8,895	101,823	11,618	225	5,810
Navy	3,471	862	2,609	83,030	8,451	236	4,241
Corps of Engineers, civil functions	5,659	38	5,620	4,753	6,094	1,326	66
General Services Adm.	15	9	6	2,677	1,577	219	1,282
Housing and Home Finance Agency	(2)	(2)	(2)	271	10	1	4
Interior	582,986	31	582,955	30,961	5,050	452	303
Post Office	2	2	(2)	2,992	506	100	405
Tenn. Valley Authority	741	(2)	741	703	1,364	190	18
Treasury	71	4	67	3,905	235	11	124
Veterans Administration	27	14	12	7,199	1,285	39	1,075
Other	258	8	250	6,987	1,341	98	376
<b>Outside U.S.</b>	<b>522</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>6,667</b>	<b>n.a.</b>	<b>n.a.</b>
In outlying areas	510	n.a.	n.a.	n.a.	1,915	n.a.	n.a.
Civilian agencies	422	n.a.	n.a.	4,260	699	26	110
Defense—military functions	96	(3)	(3)	(3)	1,216	(3)	(3)
Army	16	(3)	(3)	(3)	139	(3)	(3)
Navy	54	(3)	(3)	(3)	745	(3)	(3)
Air Force	26	(3)	(3)	(3)	331	(3)	(3)
Defense—Corps of Engineers, civil functions	(2)	(2)	(2)	16	1	(2)	(2)
In foreign countries	4	n.a.	n.a.	-----	4,752	(3)	(3)
Civilian agencies	4	n.a.	n.a.	2,342	281	53	166
Defense military functions	(3)	(3)	(3)	(3)	4,471	(3)	(3)
Army	(3)	(3)	(3)	(3)	800	(3)	(3)
Navy	(3)	(3)	(3)	(3)	813	(3)	(3)
Air Force	(3)	(3)	(3)	(3)	2,858	(3)	(3)

n.a. Not available.

<sup>1</sup> Includes Alaska and Hawaii. <sup>2</sup> Less than 500 acres.

<sup>3</sup> Data not furnished by Department of Defense for its military functions outside the United States.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

## No. 259. FEDERALLY OWNED LAND INSIDE U.S., BY PREDOMINANT USAGE, BY AGENCY: 1962

[In thousands of acres. As of June 30. Includes Alaska and Hawaii]

AGENCY	Forest and wildlife	Grazing	Military, except air-fields	Parks and historic sites	Reclamation and irrigation	Flood control and navigation	Power development and distribution	Air-fields	Other
<b>Total</b>	<b>514,672</b>	<b>166,484</b>	<b>16,901</b>	<b>22,369</b>	<b>7,988</b>	<b>5,961</b>	<b>1,871</b>	<b>1,752</b>	<b>32,799</b>
Agriculture	166,626	19,233	-----	(1)	-----	-----	-----	(1)	718
Atomic Energy Commission	-----	-----	-----	-----	-----	-----	-----	(1)	2,106
Defense	-----	-----	16,000	-----	-----	5,131	524	1,661	3,786
Army	-----	-----	6,518	-----	-----	-----	-----	5	3,335
Air Force	-----	-----	7,542	-----	-----	-----	-----	1,264	208
Navy	-----	-----	2,839	-----	-----	-----	-----	302	240
Corps of Engineers, civil functions	-----	-----	-----	-----	-----	5,131	524	-----	3
General Services Administration	(1)	-----	-----	(1)	-----	(1)	-----	-----	15
Interior	348,046	147,282	(1)	22,369	7,988	24	1,320	-----	25,989
Tennessee Valley Authority	-----	-----	(1)	-----	(1)	661	27	-----	53
Other	-----	-----	(1)	-----	(1)	146	-----	90	132

<sup>1</sup> Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

**No. 260. FEDERAL REAL PROPERTY—LAND AND BUILDINGS OWNED AND LEASED  
AND ANNUAL RENTAL ON LEASED PROPERTY, BY LOCATION AND FUNCTION: 1962**

[As of June 30]

LOCATION AND FUNCTION	LAND (1,000 acres)			FLOOR AREA OF BUILDINGS (1,000 sq. ft.)			LEASED PROPERTY	
	Total	Federally owned	Leased	Total	Federally owned	Leased	Number of leases	Annual rental (\$1,000)
<b>Total, worldwide</b>	<b>773,141</b>	<b>771,319</b>	<b>1,822</b>	n.a.	n.a.	n.a.	<b>n.a.</b>	<b>220,888</b>
Civil agencies	743,314	743,220	94	661,311	550,197	111,114	42,770	184,410
Defense:								
Military functions	24,146	22,441	1,705	n.a.	n.a.	n.a.	n.a.	35,865
Civil functions	5,681	5,659	23	9,780	9,454	326	282	604
In United States <sup>1</sup>	772,500	770,797	1,703	2,565,316	2,456,630	108,686	49,089	184,582
Civil agencies	742,883	742,794	89	619,830	520,634	99,196	38,474	165,300
Defense:								
Military functions	23,937	22,344	1,592	1,935,759	1,926,595	9,164	10,333	18,678
Civil functions	5,681	5,659	23	9,727	9,401	326	282	604
In outlying areas of United States	522	519	4	n.a.	n.a.	n.a.	n.a.	808
Civil agencies	424	422	2	14,784	14,370	414	271	687
Defense:								
Military functions	98	96	1	n.a.	n.a.	n.a.	n.a.	121
Civil functions	(2)	(2)		52	52			
In foreign countries	118	4	115	n.a.	n.a.	n.a.	n.a.	35,498
Civil agencies	7	4	3	26,606	15,193	11,503	4,025	18,432
Defense: Military functions	111		111	n.a.	n.a.	n.a.	n.a.	17,066

n.a. Not available.

<sup>1</sup> Includes Alaska and Hawaii.<sup>2</sup> Less than 500 acres.Source: General Services Administration; annual report, *Inventory Report on Real Property Leased to the United States Throughout the World*.

**No. 261. PUBLIC LANDS—DISPOSAL TRANSACTIONS AND CASH RECEIPTS: 1901 TO 1962**

[For years ending June 30. Includes Alaska. Period figures are totals, not averages. See also *Historical Statistics, Colonial Times to 1957*, series J 11-18.]

PERIOD OR YEAR	ALL ENTRIES, SELECTIONS, PATENTS, ETC. <sup>1</sup>			HOMESTEAD ENTRIES, EXCEPT ON CEDED INDIAN LANDS			CASH RECEIPTS		
	All original entries and selections <sup>2</sup>	All final entries	Patents and certifications	Original entries		Final entries <sup>3</sup>	Total <sup>4</sup>	Mineral leases <sup>5</sup>	Sales of timber
				Number	Acreage				
1901-1910	1,000 acres	1,000 acres	1,000 acres	1,000 acres	1,000 acres	1,000 acres	\$1,000	\$1,000	\$1,000
1901-1910	198,841			831,841	130,737	39,810	94,095		
1911-1920	156,402	69,778	63,327	554,026	123,826	74,316	67,023		708
1921-1930	61,231	45,513	66,358	172,503	53,460	40,391	104,454	76,372	7,537
1931-1940	19,269	14,243	18,350	44,554	15,925	13,017	57,984	44,603	4,280
1941-1945	404	1,057	3,350	1,233	159	764	58,428	40,761	7,430
1949-1950	496	438	1,726	2,456	306	156	141,464	105,446	17,498
1951-1955	1,101	1,020	2,081	2,259	289	220	497,482	375,223	69,511
1956-1960	2,075	1,353	3,406	3,899	501	233	902,014	675,178	139,121
1957	180	270	561	662	79	64	112,050	74,494	21,449
1958	146	257	915	524	70	43	127,385	84,816	24,647
1959	303	280	850	1,181	147	41	136,721	86,946	31,751
1960	1,295	270	511	1,077	148	45	371,068	313,548	36,359
1961	2,211	451	482	615	77	39	159,246	96,508	32,126
1962	2,453	622	756	674	83	23	173,517	116,771	34,736

<sup>1</sup> Includes homesteads. <sup>2</sup> Includes some classes of final entries and patents prior to 1911.<sup>3</sup> Excludes commuted homesteads.<sup>4</sup> Comprises Bureau of Land Management receipts from such sources as following: Sales of public and ceded Indian lands; fees and commissions; mineral rentals, royalties, and bonuses; sales of timber; grazing fees and rentals; and land rentals. For periods prior to 1901, receipts were \$340,821,000.<sup>5</sup> Act of Feb. 25, 1920. Includes Outer Continental Shelf leases beginning 1955.<sup>6</sup> 1920 only.Source: Department of the Interior, Bureau of Land Management; *Public Land Statistics* (formerly *Statistical Appendix to the Annual Report of the Director*).

No. 262. PUBLIC LANDS—ACREAGE OF HOMESTEAD ENTRIES, 1941 TO 1962, AND VACANT LANDS, 1940 TO 1962, BY STATES

[Homestead entries for years ending June 30; vacant lands as of June 30. See text, pp. 197 and 198. Vacant public lands are those which are unappropriated and unreserved. The former represent lands not covered by an entry; the latter, lands not reserved for some public purpose, i.e., available for entry or selection under appropriate laws. Data cover vacant public lands outside Alaska withdrawn for classification in furtherance of Taylor Grazing Act and for conservation and development of natural resources. See also *Historical Statistics, Colonial Times to 1957*, series J 10, for vacant land excluding Alaska and J 17-18 for homestead entries]

ITEM AND STATE	HOMESTEAD ENTRIES				VACANT LANDS <sup>1</sup> (1,000)			
	1941-1950, total	1951-1960, total	1961	1962	1940	1950	1960	1962
Total.....	2,464,406	2,789,998	2,77,345	2,82,512	502,826	440,408	437,879	438,618
Alabama.....					16	27	3	3
Alaska.....	231,318	571,963	73,320	79,294	323,000	270,000	270,200	271,139
Arizona.....	16,333	9,408		478	13,869	12,545	12,442	12,429
Arkansas.....		160	40		130	134	3	2
California.....	27,455	3,892			16,969	16,306	15,673	15,244
Colorado.....	18,036	14,452			7,987	8,070	8,000	8,058
Florida.....		360		40	14	23	1	1
Idaho.....	31,646	96,014	150	2,140	11,879	10,858	11,652	11,623
Illinois.....							(3)	(3)
Indiana.....							(3)	(3)
Kansas.....					3	3	1	1
Louisiana.....			37		6	7	11	8
Michigan.....					16	16	5	6
Minnesota.....					238	93	58	53
Mississippi.....					13	17	4	2
Missouri.....					(3)	1	(3)	(3)
Montana.....	18,515	1,623			6,460	6,773	6,385	6,376
Nebraska.....					29	25	6	6
Nevada.....	4,126	25,798	3,158		51,144	47,158	46,027	45,972
New Mexico.....	15,195	3,854	320	440	15,695	14,503	13,129	13,348
North Dakota.....	(4)				108	96	79	79
Oklahoma.....					23	25	23	22
Oregon.....	5,271	1,298			12,774	13,298	13,153	13,104
South Dakota.....	(4)				270	290	272	270
Utah.....	45,631	53,599	160	120	25,734	23,033	24,097	24,205
Washington.....	2,755	832	160		577	487	365	286
Wisconsin.....					6	6	2	1
Wyoming.....	32,771	2,533			15,907	16,615	16,198	16,380
Bureau of Land Management.....	4,15,354	4,212						
Final entries.....	5,921,108	5,398,864	5,38,944	5,23,138				

<sup>1</sup> Includes acreage of public lands within grazing districts, as follows: 1940, 131,926,135; 1950, 134,874,876; 1960, 141,644,850; 1962, 141,912,408.

<sup>2</sup> Original entries.

<sup>3</sup> Less than 500 acres.

<sup>4</sup> For States no longer having local offices, entries, if any, included with Bureau of Land Management.

<sup>5</sup> Excludes commuted homesteads and ceded Indian lands.

No. 263. PUBLIC AND INDIAN LAND, ENTRIES UNDER ALL ACTS—ACREAGE, BY STATES: 1936 TO 1962

[For years ending June 30. See text, pp. 197 and 198. See also *Historical Statistics, Colonial Times to 1957*, series J 13-15]

CLASS AND STATE	ORIGINAL ENTRIES						Final entries, 1962	Patented, 1962
	1936- 1940, total	1941- 1945, total	1946- 1950, total	1951- 1955, total	1956- 1960, total	1961	1962	
Total.....	1,036,849	404,409	496,287	1,100,665	2,075,680	2,210,912	2,453,211	621,786
Public land.....	987,684	400,239	480,487	1,092,480	2,075,680	2,210,942	2,453,211	621,786
Indian land.....	49,165	4,169	15,800	8,184				729,203
All homesteads.....	708,410	162,736	321,638	297,090	501,092	77,345	82,512	51,715
Stock-raising.....	472,920	25,488	3,192	2,515				313
Other entries.....	328,439	241,673	174,649	803,574	1,574,588	2,133,597	2,370,699	570,071
Alaska.....	50,034	66,695	171,810	178,285	1,358,048	1,932,785	2,278,030	419,190
Arizona.....	80,874	25,157	43,832	51,814	187,648	55,770	14,409	10,589
California.....	209,426	89,631	59,672	112,097	40,638	8,790	7,953	17,488
Colorado.....	107,578	10,209	45,484	93,435	22,379	6,620	5,569	27,072
Idaho.....	57,488	21,573	32,543	219,567	178,416	28,622	36,089	36,575
Montana.....	84,619	20,929	1,802	1,524	4,408	52	178	10,276
Nevada.....	2,831	7,851	6,900	307,022	157,329	110,222	13,435	30,868
New Mexico.....	176,942	33,435	4,733	12,350	17,167	2,921	1,950	27,851
Oregon.....	53,878	5,136	2,068	22,383	12,728	7,343	796	4,679
Utah.....	27,091	98,689	71,966	76,403	23,972	3,777	32,483	5,822
Washington.....	3,333	760	5,104	750	40,342	20,833	51,331	4,532
Wyoming.....	138,074	9,830	47,175	18,753	31,990	2,653	10,144	20,722
Other States.....	35,681	13,514	3,298	5,412	615	12,545	844	4,327

Source of tables 262 and 263: Department of the Interior, Bureau of Land Management; *Public Land Statistics* (formerly *Statistical Appendix to the Annual Report of the Director*).

## Public Lands, Parks, and Recreation

## No. 264. PUBLIC AND INDIAN LAND, ENTRIES AND PATENTS—ACREAGE: 1960 TO 1962

[For years ending June 30. Includes Alaska. See text, pp. 197 and 198. See also *Historical Statistics, Colonial Times to 1957*, series J 13-15, for grand totals for earlier years]

CLASS	1960			1961			1962		
	Original entries	Final entries	Patented entries	Original entries	Final entries	Patented entries	Original entries	Final entries	Patented entries
Total	1,295,499	270,313	511,558	2,210,942	451,055	481,785	2,453,211	621,786	755,549
Homesteads	147,917	45,097	43,845	77,345	57,461	58,929	82,512	51,715	55,608
Enlarged	1,709	3,376	3,254	160	3,668	4,492	80	1,481	1,161
Reclamation	639	25,922	23,734	310	28,276	27,840	1,980	13,080	13,275
Sec. 2289, revised statutes, <sup>1</sup> et al.	145,569	15,799	16,857	76,875	25,517	26,597	80,452	37,154	41,172
Deserts	53,868	39,601	40,215	93,708	41,071	39,720	48,615	46,641	48,751
Public auction	93,077	99,225	65,523	63,842	91,684	91,684	91,910	91,910	91,910
State selection	1,007,688	239,018	1,844,268	216,299	2187,318	1,636,884	77,570	2 313,206	2 313,206
Mineral	64,011	29,411	28,015	30,805	17,427	16,103	34,631	18,690	18,421
Exchange			164,689	35,938	42,335				153,003
Miscellaneous	22,015	63,127	96,551	128,878	53,274	73,448	650,569	335,477	74,650

<sup>1</sup> Homestead entry, not exceeding 160 acres, initiated under provisions of Section 2289 R.S. which provides for homesteading of agricultural lands.

<sup>2</sup> Includes certifications: 1960, 80,268 acres; 1961, 118,168 acres; 1962, 83,089 acres.

Source: Department of the Interior, Bureau of Land Management; *Public Land Statistics* (formerly *Statistical Appendix to the Annual Report of the Director*).

## No. 265. INDIAN LANDS UNDER JURISDICTION OF BUREAU OF INDIAN AFFAIRS—ACREAGE, BY STATES: 1900 TO 1962

[In thousands]

STATE	1900	1920	1940	1960 <sup>1</sup>	1962 <sup>1</sup>			
					Total	Trust allotted	Tribal	Govern-ment owned
Total	78,372	71,399	55,406	58,076	55,241	2 11,761	38,812	4,668
Alaska	n.a.	n.a.	n.a.	4,168	4,162	9	88	4,065
Arizona	15,151	18,653	19,225	21,515	19,740	260	19,389	91
California	406	517	667	558	553	86	467	(4)
Colorado	484	469	667	752	752	5	746	1
Florida	23	24	61	79	79		70	
Idaho	1,365	683	818	835	833	391	400	42
Iowa	3	3	3	4	4		4	
Kansas	28	273	30	20	28	26	2	(4)
Louisiana				(4)	(4)			
Michigan	8	153	27	22	21	9	8	4
Minnesota	1,567	1,509	653	756	754	55	670	29
Mississippi			9	16	16	(4)	16	(4)
Missouri				(4)	(4)	(4)		
Montana	9,501	6,054	6,455	5,457	5,381	3,640	1,613	128
Nebraska	75	360	76	68	67	2 53	14	(4)
Nevada	954	741	1,127	1,152	1,150	80	1,062	8
New Mexico	1,667	4,697	7,153	6,542	6,614	649	5,887	78
New York	88	88						
North Carolina	98	63	57	56	56		56	(4)
North Dakota	3,702	2,105	1,036	879	873	736	130	7
Oklahoma	20,397	19,552	2,844	1,855	1,733	2 1,639	59	35
Oregon	1,300	1,718	1,737	1,238	693	196	496	1
South Carolina				3				
South Dakota	8,092	6,686	5,885	5,064	4,903	2,921	1,933	139
Texas				(4)	(4)	(4)		
Utah	2,039	1,641	1,693	2,125	2,115	70	2,045	(4)
Washington	2,334	2,719	2,740	2,561	2,550	722	1,828	(4)
Wisconsin	391	590	445	422	185	86	60	39
Wyoming	1,810	2,102	2,013	1,800	1,889	128	1,760	1

n.a. Not available.

<sup>1</sup> Taxable lands generally excluded.

<sup>2</sup> Includes taxable land as follows: 35,822 acres for Nebraska and 203,517 acres for Oklahoma.

<sup>3</sup> Excludes 495,578 acres of land in litigation lost to Atchison, Topeka, and Santa Fe Railroad.

<sup>4</sup> Less than 500 acres.

Source: Department of the Interior, Bureau of Indian Affairs; *Annual Report*, and records.

## No. 266. PUBLIC LANDS—LEASES, PERMITS, AND LICENSES, BY CLASS: 1950 TO 1962

[Acres in thousands. As of June 30. Includes Alaska. Excludes leases on acquired, submerged, and military lands. For oil and gas leases for earlier years, see also *Historical Statistics, Colonial Times to 1957*, series J 32-33]

CLASS	1950		1955		1960		1962	
	Number	Acres	Number	Acres	Number	Acres	Number	Acres
Mineral class	28,208	24,006	96,898	72,902	142,114	118,157	131,282	95,153
Leases	27,747	23,076	96,337	71,983	140,057	114,136	130,556	93,915
Oil and gas	27,300	22,872	1 95,907	1 71,696	1 139,534	1 113,657	129,946	93,288
Coal	383	121	307	136	294	199	330	288
Other	64	83	123	152	229	270	280	339
Permits	418	929	525	918	2,035	4,020	710	1,237
Sodium	72	131	119	223	986	1,999	327	645
Potash	270	515	283	530	825	1,649	221	349
Other	78	233	123	164	224	373	162	243
Licenses	43	2	36	2	22	1	16	1
Other classes <sup>2</sup>	27,477	15,301	53,438	20,920	n.a.	19,529	n.a.	19,688
Leases	27,166	14,897	52,364	19,772	19,010	18,615	12,122	18,872
Grazing	11,233	14,715	11,199	10,404	9,911	18,532	9,579	3 18,747
Recreation	18	20	12	2	61	7	142	91
Small tract	15,802	73	41,092	187	8,982	33	2,322	8
Other	63	89	61	179	56	43	79	26
Permits <sup>2</sup>	311	404	1,074	1,147	n.a.	914	n.a.	816

n.a. Not available.

<sup>1</sup> Includes naval petroleum reserve; 17 leases, 9,226 acres.

<sup>2</sup> Excludes grazing licenses and permits within grazing districts. <sup>3</sup> Calendar year 1961 data.

Source: Department of the Interior, Bureau of Land Management; *Public Land Statistics* (formerly *Statistical Appendix to the Annual Report of the Director*).

## No. 267. VISITS TO AREAS ADMINISTERED BY THE NATIONAL PARK SERVICE, 1921 TO 1962, AND TO INDIVIDUAL NATIONAL PARKS, 1962

[Visits in thousands. Visits, through 1940, for years ending September 30; thereafter, calendar years. Acreage as of December 31, 1962. Includes data for Alaska, Hawaii, Puerto Rico, and Virgin Islands. See also *Historical Statistics, Colonial Times to 1957*, series H 457]

PERIOD	Visits, annual average	PERIOD	Visits, annual average <sup>1</sup>	YEAR	Visits <sup>1</sup>	YEAR	Visits <sup>1</sup>
1921-1925	1,522	1941-1945	11,498	1953	46,225	1958	65,461
1926-1930	2,927	1946-1950	28,427	1954	47,834	1959	68,900
1931-1935	4,959	1951-1955	44,695	1955	50,009	1960 <sup>2</sup>	70,279
1936-1940	15,148	1956-1960 <sup>2</sup>	68,652	1956	61,602	1961 <sup>2</sup>	86,663
				1957	68,016	1962 <sup>2</sup>	97,045

PARK	State or other area	1962		PARK	State or other area	1962	
		Federal acreage (1,000)	Visits <sup>2</sup>			Federal acreage (1,000)	Visits <sup>2</sup>
Acadia	Maine	32	1,602	Lassen Volcanic	Calif.	106	399
Big Bend	Tex.	700	91	Mammoth Cave	Ky.	51	569
Bryce Canyon	Utah	36	251	Mesa Verde	Colo.	51	262
Carlsbad Caverns	N. Mex.	46	556	Mount McKinley	Alaska	1,939	17
Crater Lake	Oreg.	160	592	Mt. Rainier	Wash.	242	1,905
Everglades	Fla.	1,303	626	Olympic	Wash.	889	2,044
Glacier	Mont.	1,009	966	Petrified Forest	Arizona	94	705
Grand Canyon	Ariz.	673	1,446	Platt	Okla.	1	1,219
Grand Teton	Wyo.	302	1,779	Rocky Mountain	Colo.	268	1,774
Great Smoky Mountains	N.C.-Tenn.	509	5,210	Sequoia	Calif.	355	687
Haleakala	Hawaii	17	71	Shenandoah	Va.	194	2,049
Hawaii Volcanoes	Hawaii	199	422	Virgin Islands	Virgin Is.	11	55
Hot Springs	Ark.	1	1,970	Wind Cave	S. Dak.	28	819
Isle Royale	Mich.	530	5	Yellowstone	Wyo.-Mont.	2,213	1,925
Kings Canyon	Calif.	454	826	Yosemite	Calif.	758	1,505
	Zion				Utah	132	622

<sup>1</sup> Beginning 1956, includes visits to National Capital parks.

<sup>2</sup> New series, not comparable with previous years. New series adjusted to old base produces estimate of 72,854,000 in 1960, 78,257,000 in 1961, and 87,688,000 in 1962.

Source: Department of the Interior, National Park Service; annual report, *Areas Administered by the National Park Service, and Public Use, National Parks and Related Areas*.

## Public Lands, Parks, and Recreation

## No. 268. NATIONAL PARKS, MONUMENTS, AND ALLIED AREAS—NUMBER, ACREAGE, AND VISITS: 1950, 1960, AND 1962

[Areas and acreage as of June 30, except as noted; visits, calendar year. Includes data for 2 areas in Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1957*, series H 455-470]

TYPE OF AREA	1950			1960			1962		
	Number of areas	Federal acreage (1,000)	Visits (1,000)	Number of areas	Federal acreage (1,000)	Visits <sup>1</sup> (1,000)	Number of areas <sup>2</sup>	Federal acreage <sup>3</sup> (1,000)	Visits <sup>1</sup> (1,000)
	182	23,882	33,253	187	25,705	79,279	191	26,003	97,045
Total	182	23,882	33,253	187	25,705	79,279	191	26,003	97,045
National Park System	177	21,855	30,701	183	22,491	75,629	187	22,560	92,973
Historical parks	5	10	1,391	8	32	6,288	9	32	9,184
Military parks	11	24	1,861	12	30	5,922	11	29	7,483
Memorial park	1	58	71	1	69	223	1	69	246
National Capital parks <sup>4</sup>	1	29	( <sup>4</sup> )	1	39	6,991	1	35	8,583
Battlefield parks	2	4	93	3	6	548	3	6	620
Other National parks	28	12,222	13,919	29	13,208	26,630	31	13,333	32,191
Monuments	86	9,439	5,310	83	8,981	10,738	80	8,926	11,752
Battlefields				1	( <sup>5</sup> )	34	4	2	214
Battlefield sites	6	( <sup>6</sup> )	149	5	( <sup>5</sup> )	288	3	1	183
Historic sites	13	3	928	12	2	1,263	16	2	1,482
Memorials	10	2	4,980	14	5	7,271	14	5	8,530
Cemeteries	10	( <sup>6</sup> )	3	10	( <sup>5</sup> )	3	10	1	3
Seashore				1	25	467	1	25	640
Parkways	4	64	1,996	3	94	8,983	3	97	11,835
National recreation areas	5	2,026	2,551	4	3,214	3,650	4	3,443	4,072

<sup>1</sup> New series, not comparable with previous years. New series adjusted to old base produces estimate of 72,854,000 in 1960, and 87,638,000 in 1962.

<sup>2</sup> As of Jan. 1, 1963.

<sup>3</sup> All parks in Washington, D.C. counted as 1 area, consisting of 769 units in 1950, 783 in 1960, and 770 in 1962.

<sup>4</sup> Visits not recorded until 1951.

<sup>5</sup> Less than 500 acres.

Source: Department of the Interior, National Park Service; annual report, *Areas Administered by the National Park Service and Public Use, National Parks and Related Areas*.

## No. 269. NATIONAL FORESTS—RECREATIONAL USE BY VISITORS, BY PRIMARY PURPOSE: 1950 TO 1962

[In thousands. Includes Alaska and Puerto Rico, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series H 471-474]

USE AND PURPOSE	1950	1956	1957	1958	1959	1960	1961	1962
Total visits for recreational use	27,368	52,556	60,957	68,450	81,521	92,595	101,913	112,762
To areas improved by public funds	13,061	25,053	27,770	31,428	33,542	35,504	36,836	39,882
To other public areas (unimproved) <sup>1</sup>	14,307	27,503	33,187	37,022	47,979	57,091	65,057	72,880
Visits, by primary purpose:								
General enjoyment of forest areas	7,960	14,190	16,634	18,246	23,538	30,181	34,680	40,452
Picnicking	6,326	12,822	14,742	16,196	19,296	19,497	20,076	20,783
Fishing	4,885	9,400	11,060	12,246	13,301	14,535	15,986	17,008
Hunting	2,285	4,436	5,168	5,589	6,838	7,591	8,535	8,854
Big-game take	358	641	562	589	650	682	703	n.a.
Camping	1,534	3,516	4,289	4,034	5,681	6,579	6,924	7,992
Winter sports	1,517	2,673	2,760	4,022	3,986	4,499	4,405	5,286
Swimming	902	1,609	1,809	2,028	2,520	2,801	3,013	3,150
Hiking and riding	635	1,353	1,457	1,613	1,786	2,018	2,250	2,539
Other	1,315	2,458	3,098	3,646	4,375	4,894	6,035	6,098

n.a. Not available.

<sup>1</sup> Includes a few public areas improved by non-Federal means.

<sup>2</sup> Excludes Puerto Rico. Comprises deer, elk, bear, antelope, moose, mountain goat, bighorn, peccary, and wild boar, of which 615,000 were deer in 1961. Beginning 1959, includes data for national grasslands.

Source: Department of Agriculture, Forest Service.

# State Park Systems

207

## No. 270. STATE PARK SYSTEMS—SUMMARY: 1950 TO 1961

[For years ending June 30, in most cases. Beginning 1959, includes Alaska and Hawaii. Number of agencies which reported varies from year to year. Covers parks, historic sites, and parkways reported by State park and State historical agencies. See also *Historical Statistics, Colonial Times to 1957*, series H 475-487]

ITEM	1950	1956	1957	1958	1959	1960	1961
Areas <sup>1</sup> .....number.....	1,725	2,100	2,216	2,335	2,433	2,664	2,792
Acreage <sup>1</sup> .....1,000.....	4,657	5,165	5,248	5,400	5,681	5,002	5,799
Expenditures.....\$1,000.....	2 36,399	2 65,844	2 74,008	2 73,222	2 88,268	87,373	110,101
Salaries and wages.....do.....	13,622	24,706	27,844	31,730	33,548	37,137	41,076
Supplies and equipment.....do.....	7,738	13,341	13,779	15,260	17,333	19,132	19,905
Lands.....do.....	2,651	5,987	4,809	7,555	14,834	12,077	13,035
Improvements.....do.....	12,364	21,520	27,526	18,632	22,432	19,026	36,085
Funds available for expenditures.....do.....	52,293	88,255	2 124,077	135,060	2 139,341	2 131,419	133,673
Appropriations.....do.....	28,421	49,610	89,309	73,626	65,283	69,294	89,852
Other.....do.....	23,862	38,645	33,049	61,433	73,767	61,794	43,821
Revenue from operations.....do.....	6,646	14,928	15,987	18,255	20,773	22,641	23,364
Attendance.....1,000.....	114,291	2 200,705	216,780	237,329	255,310	250,001	2 273,484
Day visits.....do.....	108,212	185,325	201,881	220,206	237,316	238,432	240,186
Overnight visits.....do.....	6,079	12,642	2 14,899	2 17,123	2 17,994	2 20,569	22,999
Cabins and hotels.....do.....	1,223	1,727	1,836	1,753	1,944	1,697	2,230
Organized camps.....do.....	1,480	1,809	2,200	2,075	2,096	2,235	2,206
Tent and trailer camps.....do.....	3,377	9,106	10,571	13,074	13,734	16,217	18,563
Personnel.....number.....	10,626	14,932	15,443	16,673	16,690	17,537	18,126
Professional.....do.....	401	449	498	536	607	731	1,386
Year-round.....do.....	4,191	6,048	6,302	6,691	6,966	7,412	7,984
Seasonal.....do.....	6,435	8,884	9,141	9,982	9,724	10,125	10,142
Land acquisition.....acres.....	62,042	61,544	63,389	2 158,780	2 251,689	68,326	156,485
By purchase.....do.....	18,236	30,850	29,119	17,573	52,801	38,915	64,566
By gift.....do.....	4,586	16,055	9,851	10,300	17,740	7,585	11,648
By other means.....do.....	39,220	14,639	24,419	122,841	175,321	21,826	80,271

<sup>1</sup> Excludes State forests, wildlife refuges, and waysides not administered by State park agencies.

<sup>2</sup> Includes data for which the detailed breakdown is not available.

Source: Department of the Interior, National Park Service; annual report, *State Park Statistics*.

## No. 271. STATE PARK SYSTEMS—AREAS, ACREAGE, VISITS, AND EXPENDITURES, BY STATES: 1961

[Areas and acreage as of December 31; visits, calendar year. See also headnote, table 270]

STATE	Areas	Acreage	Visits	Expenditures	STATE	Areas	Acreage	Visits	Expenditures
U.S.-----	2,792	5,799,057	1,000	\$1,000	Montana-----	24	9,329	1,000	\$1,000
			1 273,484	2 110,101	Nebraska-----	76	69,493	384	99
Alabama-----	47	42,658	2,926	436	Nevada-----	11	10,180	3,906	595
Alaska-----	65	3,094	550	154	New Hampshire-----	43	43,838	2,331	1,459
Arizona-----	4	174	81	74	New Jersey-----	41	22,737	6,320	2,448
Arkansas-----	16	10,341	3,378	381	New Mexico-----	17	4,365	1,532	409
California-----	179	704,912	27,451	20,068	New York-----	143	2,567,256	35,518	21,802
Colorado-----	18	11,034	791	432	North Carolina-----	21	37,047	1,766	692
Connecticut-----	75	22,222	4,789	904	North Dakota-----	66	5,191	490	158
Delaware-----	6	3,758	601	167	Ohio-----	113	90,019	21,311	6,460
Florida-----	52	121,677	3,771	1,844	New Mexico-----	17	4,365	1,532	409
Georgia-----	59	55,150	3,459	1,041	New York-----	143	2,567,256	35,518	21,802
Hawaii-----	20	6,245	299	274	North Carolina-----	21	37,047	1,766	692
Idaho-----	25	25,561	879	120	North Dakota-----	66	5,191	490	158
Illinois-----	86	52,562	9,574	2,352	Ohio-----	113	90,019	21,311	6,460
Indiana-----	35	51,129	2,966	1,582	New Mexico-----	17	4,365	1,532	409
Iowa-----	91	29,728	7,578	1,776	New York-----	143	2,567,256	35,518	21,802
Kansas-----	63	110,808	3,566	1,516	North Carolina-----	21	37,047	1,766	692
Kentucky-----	33	36,878	6,035	12,552	North Dakota-----	66	5,191	490	158
Louisiana-----	18	12,240	1,553	647	Ohio-----	113	90,019	21,311	6,460
Maine-----	32	205,141	723	731	New Mexico-----	17	4,365	1,532	409
Maryland-----	21	23,870	3,091	2,235	New York-----	143	2,567,256	35,518	21,802
Massachusetts-----	45	32,916	2,354	2,077	North Carolina-----	21	37,047	1,766	692
Michigan-----	83	185,980	14,327	2,956	North Dakota-----	66	5,191	490	158
Minnesota-----	74	100,862	3,287	1,122	Ohio-----	113	90,019	21,311	6,460
Mississippi-----	15	13,634	1,136	305	New Mexico-----	17	4,365	1,532	409
Missouri-----	37	72,313	7,362	967	New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----	21	37,047	1,766	692
					North Dakota-----	66	5,191	490	158
					Ohio-----	113	90,019	21,311	6,460
					New Mexico-----	17	4,365	1,532	409
					New York-----	143	2,567,256	35,518	21,802
					North Carolina-----				

## Public Lands, Parks, and Recreation

## No. 272. MUNICIPAL PARKS—NUMBER, ACREAGE, LEADERSHIP, AND SELECTED FACILITIES: 1930 TO 1960

[For reporting cities of 100,000 inhabitants or more in 1950. Includes Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 488-499]

ITEM	1930	1935	1940	1946	1950	1955	1960
Parks:							
Number.....	6,368	6,989	8,339	n.a.	8,671	9,558	10,200
Acreage.....	201,067	228,093	267,753	n.a.	301,492	323,049	362,935
Recreation leadership:							
Leaders, total.....	16,249	12,604	14,768	20,130	27,712	31,649	41,480
Full time, year-round.....	2,028	2,111	2,703	3,561	4,571	5,454	5,824
Playgrounds under leadership.....	4,236	4,386	5,165	5,288	6,426	7,113	7,947
Selected facilities:							
Ball diamonds.....	2,139	2,027	2,023	2,075	7,967	8,919	10,103
Bathing beaches.....	135	143	164	176	158	158	157
Golf courses.....	168	197	201	190	222	226	270
Outdoor swimming pools.....	387	402	449	550	549	695	863
Tennis courts.....	5,120	5,534	7,003	6,390	6,328	6,039	6,770
Recreation buildings.....	426	707	961	969	1,419	1,718	1,887
Indoor recreation centers.....	1,422	2,048	2,080	1,737	2,617	3,758	6,369

n.a. Not available.

Source: 1930-1955, Resources for the Future, Inc., Washington, D.C.; *Statistics on Outdoor Recreation*. (Figures are based on reports of the National Recreation Association.) Beginning 1960, National Recreation Association, records.

## No. 273. PUBLIC OUTDOOR RECREATION AREAS—NONURBAN, BY LEVEL OF GOVERNMENT, TYPE OF AGENCY, AND SIZE: 1960

[Excludes Alaska and Hawaii. Comprises publicly owned and managed land and water areas outside of city limits, upon which recreation, including hunting and fishing, is a recognized use. Includes the entire acreage of National, State, county, and local parks, monuments, historic sites, memorials, geologic and archaeological areas, forests, recreation areas, public hunting and shooting grounds, water access areas, fish hatcheries, and wildlife refuges where the public is permitted to engage in recreational activities]

TYPE OF AGENCY AND SIZE OF AREA	TOTAL		FEDERAL		STATE		COUNTY AND OTHER LOCAL	
	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)
Total.....	24,048	234,000	1,059	198,341	20,429	32,113	2,560	3,546
<b>TYPE OF AGENCY<sup>1</sup></b>								
Park agencies.....	4,027	22,057	182	18,078	3,195	3,600	650	379
Forest agencies.....	1,177	185,191	205	165,167	837	17,663	135	2,361
Fish and wildlife agencies <sup>2</sup> .....	4,912	18,236	325	9,625	4,440	8,603	147	8
Water development agencies <sup>3</sup> .....	82	903	41	766	29	112	12	25
Transportation agencies.....	11,876	3,976	275	3,944	11,586	32	15	(4)
Special authorities.....	139	1,331	30	648	78	445	31	238
Other agencies <sup>4</sup> .....	1,835	2,306	1	113	264	1,658	1,570	535
<b>SIZE OF AREA</b>								
40 acres and under.....	17,083	69	71	1	16,151	60	861	8
41 to 100 acres.....	974	73	45	3	742	57	187	13
101 to 500 acres.....	2,805	606	132	34	1,423	350	1,250	222
501 to 1,000 acres.....	743	538	73	54	582	423	88	61
1,001 to 5,000 acres.....	1,171	2,702	189	475	871	1,996	111	231
5,001 to 25,000 acres.....	667	7,651	187	2,235	446	4,998	34	418
25,001 to 100,000 acres.....	317	16,153	145	7,297	153	7,843	19	1,013
100,001 to 1,000,000 acres.....	206	73,309	137	55,871	59	12,858	10	1,580
Over 1,000,000 acres.....	82	132,899	80	120,371	2	3,523		

<sup>1</sup> The department, bureau, division, or board specifically charged with management of the resource for recreation purposes.

<sup>2</sup> Includes a few divisions or departments whose responsibility is general conservation, rather than concern for a specific function.

<sup>3</sup> Includes Corps of Engineers, Bureau of Reclamation, and Tennessee Valley Authority; at the State and local level, includes flood control, watershed management, drainage and reclamation, and water supply agencies.

<sup>4</sup> Less than 500 acres.

<sup>5</sup> Includes land offices, city administrations, schools, historical societies, special districts, and agencies not elsewhere classified.

Source: Outdoor Recreation Resources Review Commission; *Outdoor Recreation For America*, a report to the President and the Congress, January 31, 1962.

## Municipal and County Parks

209

No. 274. MUNICIPAL AND COUNTY PARKS—SUMMARY, STATES: 1960

STATE	PARKS		PAID EMPLOYEES		Play- grounds under leadership	Recre- ation build- ings and indoor centers	EXPENDITURES (\$1,000)				
	Num- ber	Acre- age	Total	Leader- ship			Land, build- ings, per- manent improve- ments	Current operat- ing expenses	Capital expendi- tures, 1956-1960		
United States	24,708	1,015,461	185,979	99,696	20,107	16,970	151,339	414,256	566,528		
New England	2,174	52,389	13,448	7,319	1,611	852	7,007	18,553	25,862		
Maine	128	1,243	527	344	93	43	67	716	420		
New Hampshire	114	3,111	504	252	73	45	242	763	946		
Vermont	123	1,691	455	329	51	82	67	446	189		
Massachusetts	1,204	30,514	7,215	3,696	836	296	2,836	9,450	15,206		
Rhode Island	116	1,120	849	424	126	71	68	849	452		
Connecticut	489	14,410	3,898	2,274	432	315	3,726	6,329	8,647		
Middle Atlantic	4,241	127,246	43,257	24,285	4,341	2,673	39,194	90,656	114,426		
New York	2,409	74,969	26,673	14,627	2,020	1,389	30,906	56,849	69,650		
New Jersey	749	25,277	6,828	3,786	821	558	3,473	12,426	12,680		
Pennsylvania	1,083	27,000	9,756	5,872	1,500	776	4,815	21,381	32,097		
East North Central	5,266	282,108	43,924	22,018	4,030	3,026	31,837	110,146	131,768		
Ohio	1,322	113,271	8,989	4,710	1,083	642	6,591	21,319	29,717		
Indiana	427	14,855	3,278	1,806	484	329	1,369	8,459	14,191		
Illinois	1,402	78,849	13,932	6,126	888	820	11,497	45,401	51,712		
Michigan	1,289	46,549	10,611	5,404	1,130	847	7,309	21,620	28,782		
Wisconsin	766	28,584	7,114	3,972	445	388	5,071	13,346	7,366		
West North Central	2,202	70,591	14,491	7,851	1,476	894	7,381	24,152	32,801		
Minnesota	780	18,149	4,534	2,817	529	438	1,727	7,605	9,393		
Iowa	487	13,426	2,400	1,379	263	128	1,033	2,744	3,671		
Missouri	349	19,332	3,623	1,513	297	127	3,115	8,349	12,351		
North Dakota	76	3,600	430	215	42	51	275	553	585		
South Dakota	81	1,564	403	179	49	26	184	570	466		
Nebraska	163	6,232	804	309	165	30	347	1,673	1,210		
Kansas	266	8,288	1,997	1,439	191	94	699	2,359	5,124		
South Atlantic	3,747	101,382	19,165	10,459	2,446	1,741	19,798	46,808	83,746		
Delaware	86	1,292	359	222	36	19	61	560	558		
Maryland	375	12,514	4,023	2,451	415	475	4,193	7,982	24,538		
Dist. of Columbia	840	1,39,478	1,872	717	110	117	4,317	9,655	27,546		
Virginia	375	9,155	2,771	1,811	482	298	1,112	4,688	4,382		
West Virginia	100	3,397	1,295	713	248	91	575	1,826	1,462		
North Carolina	476	10,260	2,320	1,467	345	206	1,369	3,752	5,094		
South Carolina	212	1,962	687	476	120	84	364	1,092	838		
Georgia	426	5,929	1,513	822	236	140	3,845	3,484	7,832		
Florida	857	17,395	4,325	1,780	454	311	3,961	13,739	11,497		
East South Central	904	31,906	6,726	3,086	865	602	3,508	10,445	16,790		
Kentucky	198	8,175	1,759	960	213	234	750	2,077	1,623		
Tennessee	365	12,136	2,135	1,023	306	201	1,641	4,333	6,851		
Alabama	238	5,121	1,351	680	212	97	921	2,607	2,221		
Mississippi	103	6,474	1,451	423	134	70	496	1,430	6,095		
West South Central	1,744	62,572	7,732	3,222	1,033	688	6,097	18,448	27,384		
Arkansas	25	3,487	229	50	11	21	324	395	712		
Louisiana	272	4,754	1,598	915	306	83	1,214	3,813	7,138		
Oklahoma	306	10,802	1,089	437	114	79	333	1,937	1,841		
Texas	1,141	43,529	4,818	1,820	602	505	4,227	12,302	17,692		
Mountain	1,026	119,937	5,933	3,854	795	892	3,992	10,367	14,230		
Montana	129	14,434	438	295	58	91	158	517	393		
Idaho	96	2,656	573	325	59	55	269	530	486		
Wyoming	35	7,374	102	71	16	19	84	173	159		
Colorado	334	32,023	1,662	848	167	228	1,254	3,930	5,118		
New Mexico	133	1,674	595	424	67	80	724	884	1,595		
Arizona	173	56,533	1,633	1,152	275	266	578	3,223	4,382		
Utah	87	4,121	748	611	150	149	425	872	1,322		
Nevada	39	1,122	182	128	13	14	501	239	776		
Pacific	3,464	167,330	31,303	17,602	3,510	5,602	32,224	84,680	119,521		
Washington	561	13,974	2,336	985	264	236	1,382	6,163	7,590		
Oregon	466	13,628	1,555	703	130	144	1,551	3,834	10,298		
California	2,182	135,520	26,506	15,509	2,957	5,128	25,570	71,902	97,392		
Alaska	14	850	24	6	4	1	110	87	400		
Hawaii	241	3,358	882	399	155	93	3,610	2,695	3,841		

1 32,108 acres are outside the District of Columbia.

Source: National Recreation Association, records.

## Public Lands, Parks, and Recreation

## No. 275. SELECTED RECREATIONAL ACTIVITIES: 1950 TO 1962

[Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series H 516-522, and H 525]

ACTIVITY	1950	1955	1957	1958	1959	1960	1961	1962
Baseball, major leagues:								
Attendance <sup>1</sup> .....	1,000	17,659	16,980	17,411	17,855	19,505	20,261	19,118
Regular season.....	do	17,463	16,617	17,016	17,461	19,144	19,911	18,895
National League.....	do	8,321	7,674	8,820	10,165	9,905	10,685	8,732
American League.....	do	9,142	8,943	8,196	7,296	9,149	9,227	10,163
World series.....	do	196	362	395	394	421	350	223
Softball, amateur: <sup>2</sup>	1,000	355	367	371	372	375	378	380
Tennis.....	do	59	61	62	62	63	63	64
Leagues.....	do							68
Football, professional, National Football League, attendance.....	1,000	2,008	2,608	2,801	3,070	3,198	3,195	4,023
Regular season.....	do	1,978	2,522	2,836	3,066	3,140	3,123	3,984
Championship games.....	do	30	86	55	64	58	67	39
Football, collegiate, attendance <sup>3</sup> .....	do	18,962	17,207	18,291	19,281	19,615	20,403	20,678
Boxing, professional matches, gross receipts <sup>4</sup> .....	\$1,000	3,800	6,335	5,185	5,624	4,101	5,902	5,650
Horsingacing: <sup>5</sup>								
Number of racing days.....	4,018	4,899	5,187	5,348	5,963	6,099	6,280	6,532
Total attendance.....	1,000	20,291	38,503	41,365	43,373	45,451	46,870	49,560
Parimutuel turnover.....	mil. dol.	1,638	2,592	2,937	3,039	3,246	3,358	3,467
Revenue to States.....	\$1,000	98,221	186,990	216,748	222,050	242,380	258,039	264,855
Total monies distributed <sup>6</sup> .....	do	46,869	85,182	97,903	100,951	107,927	111,473	118,845
Greyhound racing: <sup>5</sup>								
Number of racing days.....	1,738	2,143	2,388	2,187	2,395	2,478	2,605	2,646
Total attendance.....	1,000	6,083	7,131	7,610	7,047	7,769	7,924	8,465
Parimutuel turnover.....	mil. dol.	167	242	271	202	298	322	336
Revenue to States.....	\$1,000	10,539	16,705	18,652	18,559	19,422	22,051	23,008
Total monies distributed <sup>6</sup> .....	do	n.a.	n.a.	n.a.	9,207	7,200	7,215	9,113
Tenpin bowling: <sup>7</sup>								
Establishments.....	number	6,325	6,636	7,190	7,475	8,191	8,907	9,906
Lanes.....	do	52,483	58,203	65,127	73,081	87,475	107,908	130,805
Membership:								
American Bowling Congress.....	1,000	1,417	1,738	2,245	2,605	3,143	3,665	4,370
Women's International Bowling Congress.....	do	496	706	866	1,005	1,232	1,543	1,906
American Jr. Bowling Congress.....	do	24	67	131	132	217	330	410
Duckpin bowling: <sup>8</sup>								
Establishments.....	number	463	556	584	601	612	653	678
Lanes.....	do	5,550	6,875	7,127	7,248	7,298	8,707	8,902
Teams.....	do	28,665	40,552	49,667	51,700	51,924	62,067	65,318
Motion picture theaters: <sup>9</sup>								
Average weekly attendance.....	millions	60	46	45	40	42	40	42
Gross receipts.....	mil. dol.	1,320	1,185	1,120	1,108	1,200	1,483	1,485
Outboard motors and boats: <sup>10</sup>								
Motors in use.....	1,000	2,811	4,210	5,040	5,385	5,660	5,800	6,100
Motors sold.....	do	367	615	550	504	540	468	343
Value (retail).....	mil. dol.	63	153	204	234	253	221	155
Average horsepower.....	6.9	12.9	16.3	20.7	23.7	27.4	29.0	30.3
Boats sold.....	1,000	131	258	320	316	329	294	237
Boat trailers sold.....	do	18	129	165	178	186	206	178

n.a. Not available.

<sup>1</sup> Source: *World Almanac*. <sup>2</sup> Amateur Softball Association of America. Beginning 1962, includes Alaska and Hawaii. <sup>3</sup> National Collegiate Athletic Association. <sup>4</sup> Source: *The Ring*. Includes Hawaii. 1962 data preliminary. <sup>5</sup> National Association of State Racing Commissioners. Horsingacing includes thoroughbred, harness, quarter horse, and fair. <sup>6</sup> Distributed in stakes and purses. <sup>7</sup> American Bowling Congress. Data are for the season ending in year shown. Beginning 1959, includes Alaska and Hawaii. <sup>8</sup> National Duckpin Bowling Congress. <sup>9</sup> Source: *The Film Daily Yearbook of Motion Pictures*, 1962. 1961 data estimated. <sup>10</sup> Outboard Industry Associations. Beginning 1959, includes Alaska and Hawaii. 1962 data preliminary.

Source: Compiled from sources listed in footnotes.

## No. 276. NUMBER AND COST OF HUNTING AND FISHING LICENSES: 1950 TO 1961

[For years ending June 30. Beginning 1959, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 523-524]

ITEM	1950	1955	1956	1957	1958	1959	1960	1961
Hunting licenses:								
Paid license holders.....	1,000	12,638	14,192	14,462	14,918	14,764	11,924	11,786
Resident.....	do	12,441	13,853	14,089	14,508	14,330	9,539	9,429
Nonresident.....	do	197	339	378	410	434	2,385	2,357
Cost to hunters.....	\$1,000	37,641	42,791	46,638	47,847	53,008	57,811	60,981
Fishing licenses:								
Paid license holders.....	1,000	15,338	18,855	18,702	19,277	20,178	20,007	19,081
Resident.....	do	13,309	16,212	16,040	16,645	17,402	17,149	15,948
Nonresident.....	do	2,029	2,643	2,662	2,631	2,776	2,858	3,133
Cost to anglers.....	\$1,000	34,018	39,502	43,150	42,770	45,410	50,375	52,143
Federal duck stamps issued.....	1,942	2,182	2,370	2,382	2,382	2,355	2,108	1,628

<sup>1</sup> Excludes Colorado, Michigan, Minnesota, and Wisconsin.

Source: Department of the Interior, Fish and Wildlife Service.

# Recreation—Fishing and Hunting Licenses

211

## No. 277. NUMBER OF DAYS PARTICIPATION PER PERSON 12 YEARS OLD AND OVER IN SELECTED OUTDOOR ACTIVITIES, BY SEASON: 1960-61

[Excludes Alaska and Hawaii. Data refer to number of days that individuals participated in specified activities, regardless of amount of time spent in participation. Based on a nationwide survey of outdoor recreation habits and preferences of persons 12 years old and over, conducted by the Bureau of the Census, and consisting of 4 separate samples, each involving approximately 4,000 interviews]

OUTDOOR ACTIVITY	Year	Summer, June-Aug. 1960	Fall, Sept.-Nov. 1960	Winter, Dec. 1960- Feb. 1961	Spring, Mar.-May 1961
Driving for pleasure	20.73	6.68	4.34	4.66	5.05
Walking for pleasure <sup>1</sup>	21.14	5.39	4.98	5.56	5.21
Playing outdoor games or sports	12.71	3.63	2.77	2.58	3.73
Swimming, water skiing	6.88	5.45	0.68	0.17	0.58
Sightseeing	5.91	2.20	1.38	1.17	1.16
Bicycling	5.15	1.75	0.93	0.87	1.60
Fishing, hunting	6.05	2.18	1.48	1.18	1.21
Attending outdoor sports events	3.75	1.32	1.23	0.45	0.75
Picnicking, camping	4.30	2.60	0.82	0.28	0.69
Boating, canoeing, sailing	2.18	1.34	0.42	0.14	0.28
Horseback riding	1.25	0.42	0.21	0.20	0.42
Ice skating, snow skiing, sledding, tobogganning	1.18	(2)	(2)	1.02	0.11
Attending outdoor concerts, drama, etc.	0.39	0.21	0.08	0.03	0.07
Miscellaneous	0.57	0.40	0.08	0.05	0.04

<sup>1</sup> Includes nature walks, hiking, and mountain climbing.

<sup>2</sup> Less than 0.005 days per person.

Source: Outdoor Recreation Resources Review Commission, Washington, D.C.; *Outdoor Recreation for America*, a report to the President and the Congress, January 31, 1962.

## No. 278. NUMBER AND COST OF STATE FISHING AND HUNTING LICENSES, BY STATES: 1961

[For year ending June 30. Excludes Migratory Waterfowl Stamps (Duck Stamps)]

STATE	PAID LICENSE HOLDERS <sup>1</sup> (1,000)		COST OF LICENSES <sup>2</sup> (\$1,000)		STATE	PAID LICENSE HOLDERS <sup>1</sup> (1,000)		COST OF LICENSES <sup>2</sup> (\$1,000)	
	Fish- ing	Hunt- ing	Fish- ing	Hunt- ing		Fish- ing	Hunt- ing	Fish- ing	Hunt- ing
United States	19,394	311,799	52,351	64,063	Missouri	657	311	2,186	1,115
Alabama	407	321	834	734	Montana	235	202	453	1,363
Alaska	55	41	366	426	Nebraska	207	196	430	948
Arizona	209	118	824	817	Nevada	66	42	269	367
Arkansas	391	234	1,002	739	New Hampshire	120	83	345	176
California	1,475	632	6,219	3,760	New Jersey	145	174	721	821
Colorado	391	n.a.	1,425	3,307	New Mexico	137	114	528	796
Connecticut	109	55	420	194	New York	735	691	2,396	5,784
Delaware	12	26	22	63	North Carolina	334	304	890	1,154
Florida	551	164	1,178	1,047	North Dakota	74	83	120	484
Georgia	497	238	658	538	Ohio	790	683	1,621	1,542
Hawaii	3	6	7	32	Oklahoma	463	194	1,041	541
Idaho	244	172	993	967	Oregon	426	307	1,532	1,834
Illinois	713	477	1,438	1,827	Pennsylvania	598	907	1,909	4,332
Indiana	709	574	950	792	Rhode Island	16	13	53	44
Iowa	409	320	807	762	South Carolina	259	172	570	517
Kansas	303	223	626	572	South Dakota	146	172	286	1,232
Kentucky	328	255	1,074	981	Tennessee	656	432	1,129	895
Louisiana	139	261	205	654	Texas	872	494	1,875	1,653
Maine	220	185	742	1,072	Utah	203	187	621	1,635
Maryland	91	158	281	719	Vermont	109	111	242	541
Massachusetts	195	117	762	490	Virginia	321	350	853	1,364
Michigan	953	n.a.	2,797	4,834	Washington	381	288	1,644	2,078
Minnesota	1,355	n.a.	2,286	1,492	West Virginia	153	211	540	897
Mississippi	277	208	528	498	Wisconsin	1,050	n.a.	3,257	2,722
					Wyoming	175	113	779	1,911

n.a. Not available.

<sup>1</sup> Resident and nonresident. <sup>2</sup> Total cost to fishermen or hunters for all licenses, permits, tags, stamps, etc.

<sup>3</sup> Excludes Colorado, Michigan, Minnesota, and Wisconsin.

Source: Department of the Interior, Fish and Wildlife Service; mimeographed release.

## No. 279. FISHERMEN AND HUNTERS, BY GEOGRAPHIC DIVISION, SEX, AND AGE: 1955 AND 1960

[In thousands of persons 12 years old and over, except as noted. For 1960, includes Alaska and Hawaii. Based on a sample of approximately 18,000 households. For composition of divisions, see fig. I, p. XII]

ITEM	1955		1960				On trips lasting more than 1 day		
	Total persons	Total who fished and/or hunted	Total persons	Total who fished and/or hunted	Total who fished and hunted	Total who fished			
		Fishermen		Hunters					
Total	118,366	24,917	131,226	30,435	9,525	25,323	14,637	8,052	3,305
By division:									
New England	7,919	1,224	8,349	1,368	354	1,205	517	313	84
Middle Atlantic	24,869	3,539	26,493	3,432	860	2,569	1,723	496	273
East North Central	25,733	5,480	26,833	6,316	1,986	5,317	2,985	1,877	706
West North Central	9,201	2,913	10,149	3,383	1,181	2,855	1,709	1,160	381
South Atlantic	14,336	3,223	17,798	4,423	3,171	3,695	2,045	696	287
East South Central	7,959	1,963	9,277	2,778	939	2,207	1,510	488	125
West South Central	10,260	2,560	11,837	3,666	1,217	3,133	1,750	1,002	333
Mountain	4,529	1,369	5,222	1,646	846	1,372	1,120	799	414
Pacific	13,570	2,637	15,268	3,422	828	2,971	1,279	1,210	641
By population:									
Big cities	21,010	2,169	22,059	2,365	432	2,162	635	799	273
Small cities and suburbs	34,263	6,001	35,358	6,376	1,474	5,656	2,194	2,346	731
Towns	21,729	5,337	21,147	5,334	1,861	4,528	2,667	1,343	607
Rural areas	41,364	11,410	52,632	16,359	5,758	12,976	9,141	3,564	1,602
By sex:									
Men	150,082	16,295	62,732	23,171	8,820	18,379	13,612	5,922	3,028
Women	53,705	14,836	68,494	7,264	705	6,944	1,025	2,130	277
By age:									
12 to 15 years	14,579	3,788	13,210	4,118	1,212	3,717	1,618	1,058	209
16 to 17 years			(5,548)	1,577	592	1,173	996	304	155
18 to 24 years	12,130	2,517	15,216	3,838	1,443	2,952	2,329	770	433
25 to 34 years	21,790	5,104	21,929	5,876	1,991	4,816	3,051	1,631	789
35 to 44 years	23,730	5,978	23,523	6,097	1,868	5,075	2,890	1,728	761
45 to 64 years	32,220	6,272	36,287	7,378	2,062	6,283	3,157	2,250	832
65 years and over	12,917	1,258	15,513	1,549	369	1,307	601	311	120

<sup>1</sup> Persons 18 years old and over.

Source: Department of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1955 and 1960*, and records.

## No. 280. EXPENDITURES OF FISHERMEN AND HUNTERS: 1960

[Includes Alaska and Hawaii. Data refer to persons 12 years old and over who fished and/or hunted. Based on a sample of approximately 18,000 households]

ITEM	PERSONS WHO FISHED OR HUNTED OR BOTH		PERSONS WHO FISHED		PERSONS WHO HUNTED	
	Total spent (\$1,000)	Average per person	Total spent (\$1,000)	Average per person	Total spent (\$1,000)	Average per person
	Total					
Total	3,852,116	\$126.57	2,690,872	\$106.26	1,161,242	\$79.34
Food	236,983	9.43	208,731	8.24	78,252	5.35
Lodging	89,516	2.94	62,129	2.45	27,391	1.87
Transportation:						
Automobile	529,749	17.41	369,762	14.60	159,987	10.93
Bus, rail, air, and water	14,750	.48	6,380	.25	8,379	.57
Equipment:						
Boats and motors	881,051	28.95	769,627	30.00	121,423	8.30
General auxiliary equipment	331,964	10.91	236,333	9.83	95,631	6.53
Fishing and/or hunting equipment	668,789	21.81	308,326	12.18	355,404	24.29
Licenses, tags, and permits	110,844	3.64	52,743	2.08	68,098	3.97
Duck stamps	4,575	.15			4,575	.31
Annual lease and privilege fees	23,435	.77	12,934	.51	10,500	.72
Daily entrance and privilege fees	49,670	1.63	34,543	1.36	15,125	1.03
Bait, guide fees, and other trip expenses	609,685	20.03	572,596	22.61	37,001	2.53
Other <sup>2</sup>	256,097	8.41	95,768	2.64	189,326	12.94

<sup>1</sup> Includes tents, sleeping gear, cooking and eating utensils, special clothing, lanterns, binoculars, trailers, cabins, and other equipment used primarily for fishing and hunting.

<sup>2</sup> Includes boat launching fees for fishermen, dogs for hunters, costs of fishing and hunting magazines, general club dues, and other miscellaneous expenditures.

Source: Department of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1960*.

## No. 281. PERSONAL CONSUMPTION EXPENDITURES FOR RECREATION: 1940 TO 1961

[In millions of dollars. Represents market value of purchases of goods and services by individuals and nonprofit institutions. Beginning 1960, adjusted to include Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 500-515.]

TYPE OF PRODUCT OR SERVICE	1940	1945	1950	1955	1957	1958	1959	1960	1961
Total recreation expenditures.....	3,761	6,139	11,278	14,220	16,082	16,842	18,309	19,484	20,638
Books and maps.....	234	520	677	888	1,149	1,181	1,353	1,545	1,721
Magazines, newspapers, and sheet music.....	589	965	1,495	1,917	2,057	2,233	2,309	2,439	2,534
Nondurable toys and sport supplies.....	306	553	1,396	1,842	2,094	2,162	2,378	2,470	2,621
Wheel goods, durable toys, sports equipment, boats, and pleasure aircraft.....	254	400	878	1,397	1,760	1,833	2,017	2,089	2,169
Radio and television receivers, records, and musical instruments.....	494	344	2,457	2,702	3,000	3,067	3,420	3,616	3,815
Radio and television repair.....	32	88	281	522	652	720	784	860	909
Flowers, seeds, and potted plants.....	201	378	524	721	824	815	905	985	1,058
Admissions to specified spectator amusements.....	904	1,714	1,775	1,700	1,662	1,736	1,875	1,945	2,049
Motion picture theaters.....	735	1,450	1,367	1,217	1,120	1,168	1,271	1,298	1,369
Legitimate theaters and opera, and entertainments of nonprofit institutions (except athletics).....	71	148	185	251	206	313	339	373	400
Spectator sports.....	98	116	223	232	246	255	265	274	280
Clubs and fraternal organizations <sup>1</sup> .....	203	281	467	582	681	716	744	761	799
Commercial participant amusements <sup>2</sup> .....	197	284	463	615	725	794	868	959	1,041
Parl-mutuel net receipts.....	55	153	237	375	431	447	473	505	523
Other <sup>3</sup> .....	292	459	628	809	1,017	1,098	1,183	1,310	1,399

<sup>1</sup> Gross receipts less cash benefits of fraternal, patriotic, and women's organizations except insurance; and dues and fees of athletic, social, and luncheon clubs, and school fraternities.

<sup>2</sup> Billiard parlors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; daily fee golf courses, including greens; golf instruction, club rental, and caddy fees; sightseeing buses and guides; and private flying.

<sup>3</sup> Photo developing and printing, photographic studios, collectors' net acquisitions of stamps and coins, hunting dog purchase and training, sports guide service, veterinary service, purchase of pets, camp fees, nonvending coin machine receipts minus payoff, and other commercial amusements.

Source: Department of Commerce, Office of Business Economics; *National Income Supplement*, 1954, U.S. *Income and Output*, a supplement to the *Survey of Current Business*, and *Survey of Current Business*, July 1962.

## No. 282. VOLUME AND CHARACTERISTICS OF TRAVEL: 1957

[Covers civilian noninstitutional population, excluding Alaska and Hawaii. Excludes trips to and from home locality by students attending college, 1-way travel of families permanently moving their residence, and occupational travel by pilots, engineers, bus drivers, etc. Data based on a sample of approximately 24,000 households, interviewed at the rate of about 2,000 each month as a part of Current Population Survey; see Technical Note, p. 217.]

ITEM	TRIPS <sup>1</sup>		TRIP DAYS <sup>2</sup>		Aver- age days per trip	ITEM	TRIPS <sup>1</sup>		TRIP DAYS <sup>2</sup>		Aver- age days per trip
	Num- ber (mil- lions)	Per- cent	Num- ber (mil- lions)	Per- cent			Num- ber (mil- lions)	Per- cent	Num- ber (mil- lions)	Per- cent	
Total.....	231	100	1,287	100	5.6	Major destination of trip:					
Purpose of trip:						Northeast.....	41	18	255	20	6.2
Business <sup>3</sup> .....	44	10	210	16	4.8	North Central.....	60	26	304	24	5.0
Visit friends and relatives.....	107	46	546	43	5.1	South.....	80	35	448	35	5.6
Other vacation and pleasure.....	61	27	410	32	6.7	West.....	44	19	234	18	5.3
Other personal.....	19	8	121	9	6.4	Outside U.S. <sup>4</sup> .....	5	2	46	4	8.6
Means of transport:						Distance to major destination:					
Automobile.....	201	87	1,051	82	5.2	Under 100 miles.....	89	38	357	28	---
Bus.....	6	2	41	3	7.1	100 to 199 miles.....	70	31	274	21	---
Rail.....	8	4	62	5	7.7	200 to 499 miles.....	44	19	292	23	---
Air.....	8	3	73	5	9.4	500 to 999 miles.....	14	6	157	12	---
Combination and other.....	9	4	60	5	6.8	1,000 miles and over.....	10	4	161	12	---
Origin of trip:						Outside U.S. <sup>4</sup> .....	5	2	46	4	---
Northeast.....	44	19	203	23	6.6	Annual income of family:					
North Central.....	68	29	384	30	5.6	Under \$3,000.....	35	15	206	16	6.0
South.....	76	33	390	30	5.1	\$3,000 to \$5,999.....	95	41	463	36	4.9
West.....	42	18	220	17	5.2	\$6,000 to \$9,999.....	69	30	399	31	5.8
						\$10,000 and over.....	32	14	219	17	6.8

<sup>1</sup> A trip involves 1 person being out of town at least overnight or taking a 1-day round trip to a place that is at least 100 miles (1 way) away from home. A round trip starts and ends in the traveler's home locality. If 2 persons in the same household take a round trip together, 2 round trips are counted.

<sup>2</sup> Days spent away from home locality by 1 person on a round trip.

<sup>3</sup> Includes both "direct business" in which the traveler goes principally for business reasons, and "indirect business" in which others in the household accompany the person who went for business purposes.

<sup>4</sup> Includes Alaska, Hawaii, and outlying and foreign areas.

Source: Department of Commerce, Bureau of the Census; *Travel Survey—1957*.

## Public Lands, Parks, and Recreation

No. 283. FOREIGN TRAVEL—TRAVELERS AND EXPENDITURES: 1929 TO 1961  
 [Travelers in thousands; expenditures in millions of dollars. Covers residents of conterminous U.S., Alaska, Hawaii, and Puerto Rico]

ITEM AND COUNTRY	1929	1937	1947	1950	1955	1958	1959	1960	1961
<b>NUMBER OF TRAVELERS<sup>1</sup></b>									
Total, overseas.....	517	435	435	676	1,075	1,398	1,516	1,634	1,575
Means of transport from U.S.:									
Sea.....	n.a.	n.a.	n.a.	298	318	292	279	317	268
Air.....	n.a.	n.a.	n.a.	378	757	1,106	1,237	1,317	1,307
Region and country:									
Europe and Mediterranean.....	350	248	149	302	482	637	705	832	826
West Indies and Central America.....	136	153	245	323	522	645	677	641	550
South America.....	8	9	27	38	34	52	59	71	83
Other.....	23	24	14	13	37	64	75	90	116
<b>EXPENDITURES<sup>2</sup></b>									
Total.....	688	470	716	1,022	1,612	2,140	2,380	2,640	2,642
Transportation: <sup>3</sup>									
Foreign flag carriers.....	164	95	55	145	201	320	320	4490	4515
United States flag carriers.....	41	27	88	123	258	360	390	4405	4380
Expenditures abroad:									
Canada.....	178	156	241	261	306	323	365	380	425
Mexico.....	36	44	140	172	255	319	350	365	370
Total overseas areas.....	269	148	192	321	592	818	895	1,000	952
Europe and Mediterranean.....	213	97	107	225	430	500	604	704	630
West Indies and Central America.....	37	35	56	61	107	156	174	166	100
South America.....	5	4	16	22	22	37	41	45	48
Other.....	14	12	13	13	33	65	76	85	114

n.a. Not available.

<sup>1</sup> Excludes the following: Travel to Canada and Mexico; travel between conterminous U.S. and Alaska, Hawaii, Puerto Rico, and the Virgin Islands; cruise travelers; military personnel and other Government employees and their dependents stationed abroad; and U.S. citizens residing abroad. <sup>2</sup> Includes shore expenditures of cruise travelers; excludes travel expenditures of military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad. <sup>3</sup> Excludes passenger fares of emigrant aliens.

<sup>4</sup> New series; not comparable with years prior to 1960.

No. 284. TRAVEL TO EUROPE AND THE MEDITERRANEAN AREA—TRAVELERS AND AVERAGE EXPENDITURE: 1950 TO 1961

[Travelers in thousands. Covers residents of conterminous U.S., Alaska, Hawaii, and Puerto Rico, except as noted. For definitions of terms, see table 283]

ITEM	1950	1955	1957	1958	1959	1960	1961
Total travelers.....	302	482	556	637	705	832	826
U.S. born.....	n.a.	299	354	422	465	569	582
Foreign born.....	n.a.	183	202	215	240	263	244
Means of transport from U.S.:							
Sea.....	n.a.	214	205	218	204	230	206
First class.....	n.a.	56	50	60	n.a.	n.a.	n.a.
Cabin class <sup>1</sup> .....	n.a.	50	57	57	n.a.	n.a.	n.a.
Tourist class <sup>2</sup> .....	n.a.	99	98	101	n.a.	n.a.	n.a.
Air.....	n.a.	268	351	419	501	602	620
First class.....	n.a.	83	91	97	n.a.	n.a.	n.a.
Tourist class <sup>3</sup> .....	n.a.	185	260	94	n.a.	n.a.	n.a.
Economy class <sup>4</sup> .....				228	n.a.	n.a.	n.a.
Average expenditure and stay:							
Average per trip <sup>5</sup> .....dollars.....	742	889	867	876	851	841	757
Average length of stay.....days.....	6 64	56	52	50	n.a.	n.a.	n.a.
Average per day.....dollars.....	6 12.04	15.88	16.67	17.52	n.a.	n.a.	n.a.

n.a. Not available. <sup>1</sup> Includes travelers using first-class accommodations costing less than \$325.

<sup>2</sup> Includes travelers using freighter, combination type, or tourist class accommodations.

<sup>3</sup> Includes travelers using chartered planes. <sup>4</sup> Originated in April 1958.

<sup>5</sup> Excludes transatlantic passenger fares. <sup>6</sup> U.S. citizens only.

No. 285. FOREIGN TRAVEL TO THE UNITED STATES—TRAVELERS, 1955 TO 1961, AND EXPENDITURES, 1947 TO 1961

[Includes travelers for business and pleasure, foreigners in transit through the United States, and students; excludes travel by foreign government personnel and foreign businessmen employed in the United States]

AREA OF ORIGIN	TRAVELERS (0,000)				EXPENDITURES (\$1,000,000)					
	1955	1959	1960	1961	1947	1950	1955	1959	1960	1961
Total.....	n.a.	n.a.	n.a.	n.a.	364	419	654	902	968	975
Canada.....	n.a.	n.a.	n.a.	n.a.	152	193	364	462	460	451
Mexico.....	n.a.	n.a.	n.a.	n.a.	64	69	110	160	182	199
Overseas areas.....	332	544	602	624	148	157	180	280	317	325
Europe and Mediterranean.....	131	233	274	299	64	56	61	98	115	133
West Indies, Central America, and South America.....	169	243	249	238	63	77	93	133	133	120
Other.....	32	68	79	87	22	24	26	49	69	72

n.a. Not available.

Source of tables 283-285: Department of Commerce, Office of Business Economics; Survey of Current Business, and records.

## Section 8

### Labor Force, Employment and Earnings

This section presents statistics dealing with the characteristics of the economically active segment of the population, the labor force; its distribution by occupation and industry affiliation; and the supply of, demand for, and conditions of labor.

The chief sources of these data are the Decennial Census of Population conducted by the Bureau of the Census (see text, p. 1); *Employment and Earnings*, *Monthly Labor Review*, and *Monthly Report on the Labor Force*, issued by the Bureau of Labor Statistics; and *Farm Labor*, issued monthly by the Statistical Reporting Service, Department of Agriculture.

**Types of data.**—Statistics shown in this section are of two types. One type is obtained by the "population approach" represented by the Census of Population of the Bureau of the Census and by the monthly labor force survey of the Bureau of Labor Statistics, for which data are collected by the Bureau of the Census as a part of the Current Population Survey (see text, pp. 1 and 217). This approach involves direct enumeration and interrogation to obtain information on employment activity from workers or members of workers' households. Each employed worker is counted only once, even though he may have held two or more jobs during a given period.

The second type of data is obtained by the "establishment approach," represented by the industry surveys of the Bureau of Labor Statistics and the surveys of the Department of Agriculture's Statistical Reporting Service. These data are based on reports from employers, i.e., farms, businesses, or industrial establishments. Such data as wages, hours worked, labor turnover, and industry affiliation of employees can be more accurately obtained from employers' records than from inquiries directed to a worker or a member of his household. Workers appearing on more than one payroll for the same time period are counted more than once in establishment statistics.

The Census of Population provides detailed data for the United States and for each State, city, and other area. It includes personal characteristics (sex, age, race, etc.) of the numbers employed and unemployed, the numbers reported in each occupation and industry, and other items. The labor force survey provides current data published in *Employment and Earnings* and in related publications series of the *Bureau of Labor Statistics*. Data presented include national totals, by sex and age, of the number of persons in the civilian labor force, the number employed in nonagricultural industries and in agriculture, the number unemployed, and the number of nonworkers. Also provided are data on hours of work and major occupation groups of those employed and duration of unemployment of those unemployed.

In addition, the Bureau of Labor Statistics, in *Employment and Earnings*, provides detailed monthly data on employment, unemployment, payrolls, labor turnover, earnings, and hours. These data are shown for broad groupings in the *Monthly Labor Review*, which also presents statistics on wage rates, industrial relations, and output per man-hour. Certain of these data are shown for States and large cities. Historical statistics for the United States are shown in the Bureau of Labor Statistics Bulletin No. 1312, *Employment and Earnings Statistics for the United States, 1909-60*.

**Labor force.**—The labor force data published by the Bureau of Labor Statistics and by the Bureau of the Census include persons 14 years old and over who were employed, unemployed, or in the Armed Forces during a specified week. Employed persons include those who did any work for pay or profit during the week, worked without pay for 15 hours or more in a family enterprise (farm or business), or did not work or look for work but had a job or business from which they were temporarily absent during the week. Unemployed persons comprise those who did not work at all during the week but were looking for work or were on layoff from a job.

In the 1960 Census, the labor force data relate to the first or second week of April for the majority of the population. "Experienced civilian labor force" refers to all employed workers and unemployed workers with previous work experience.

**Employment and earnings.**—The monthly estimates of nonagricultural employment prepared by the Bureau of Labor Statistics are based on voluntary reports from establishments which employed 11 million manufacturing workers in March 1959 (66 percent of total manufacturing employment at that time) and 7 million workers in nonmanufacturing industries except Government (28 percent of the total in non-manufacturing industries). These reports are supplemented by data from other Government agencies and adjusted at intervals to data from tabulations of reports under Government social insurance programs. The monthly estimates exclude persons not normally on establishment payrolls, such as proprietors of unincorporated businesses, self-employed persons, domestic servants, unpaid family workers, agricultural workers, and persons in the Armed Forces. The employment data are for all employees, whether full- or part-time, who received pay for any part of the period reported.

Estimates are available on a continuous basis from 1919 for total nonfarm payroll employment and the 8 major industry divisions. Estimates for other periods are available for several hundred selected industries. Both total employment and production-worker estimates are published for 21 major manufacturing groups, 240 manufacturing subgroups, and for mining industries. Also, estimates for nonsupervisory workers are published for individual wholesale trade, retail trade, public utility, and some finance and service industries. Estimates for construction workers are published for the contract construction industries.

Average weekly hours and average weekly and hourly earnings are available for production and related workers for over 300 series in manufacturing; in mining, laundries, and cleaning and dyeing industries; and for nonsupervisory employees and working supervisors in other selected nonmanufacturing industries. The earnings data are gross (before payroll deductions) and include overtime premiums; they exclude irregular bonuses and value of payments in kind. Hours are those for which pay was received.

Agricultural employment estimates and wage rates, obtained by means of monthly mail returns, have been issued since 1909 by the Department of Agriculture and appear monthly in *Farm Labor*.

**Output per man-hour.**—The Bureau of Labor Statistics prepares and publishes annual measures of output per man-hour according to two broad concepts. The first, physical output per man-hour, deals with the relationship between production in physical units and man-hours used in production. The indexes measure the relationships between the volume of goods produced and one factor of input—labor time. They do not measure the specific contribution of labor or capital nor do they measure increased efficiency resulting from more economical use of fuels and materials or more efficient integration of industries. The indexes of output per man-hour for selected industries are based on this concept.

The other concept of productivity measurement, net output per man-hour, deals with the relationship between value added (at fixed prices) and man-hours. These indexes reflect not only average productivity change of industry components, but shifts among industries, and savings in materials consumption.

**Labor turnover.**—Labor turnover rates are published monthly in the *Monthly Labor Review* and in *Employment and Earnings* for over 200 industries on the basis of reports from cooperating establishments employing almost 10 million workers (about 55 percent of the universe surveyed). Labor turnover data are available on a monthly

basis from January 1930 for manufacturing as a whole. Labor turnover rates for individual industries and industry groups are available on a continuous basis only from January 1958.

**Work stoppages.**—The basic measures of strike statistics compiled by the Bureau of Labor Statistics are the number of stoppages, of workers involved, and of man-days of idleness. Basic statistical data are obtained from the employers and unions involved. Knowledge of strikes comes from a variety of sources, including newspapers, State employment services, and State and Federal mediation services. The Bureau prepares annual reports published in the *Monthly Labor Review* and, later, in bulletin form, giving total figures for each month of the year and analyses of strikes by industry, State, city, causes, and other pertinent classifications.

**Alaska and Hawaii.**—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface. "Conterminous area" refers to the United States excluding Alaska, Hawaii, and outlying areas.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

---

#### Technical Note—Current Population Survey

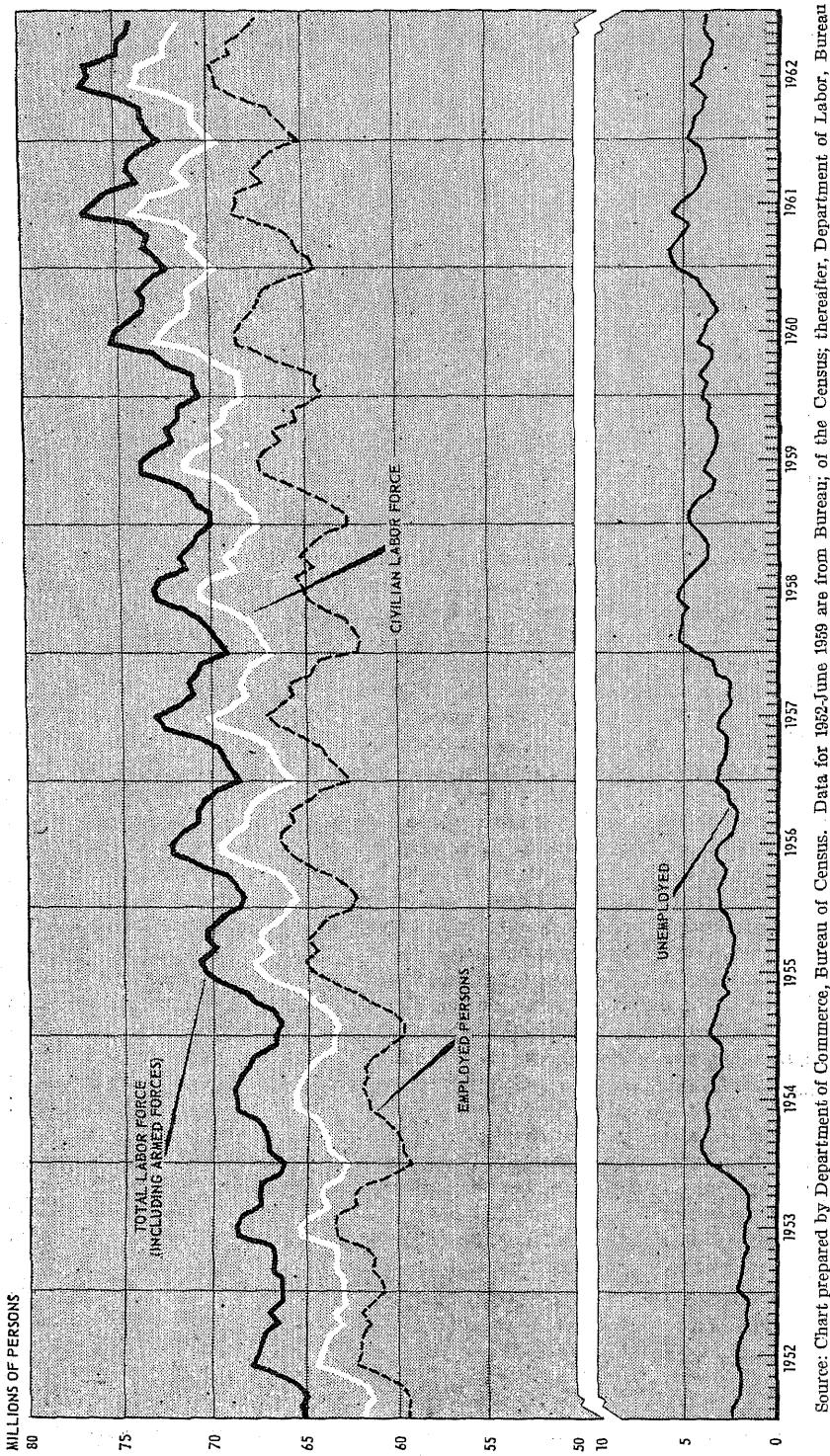
**Source of data.**—The Current Population Survey is a monthly sample survey conducted by the Bureau of the Census. Monthly data on the labor force are collected and compiled for the Bureau of Labor Statistics as a part of the Current Population Survey. The current sample design is spread over 357 areas comprising 701 counties and independent cities, with coverage in each of the 50 States and the District of Columbia. Approximately 35,000 households are interviewed each month. Another 1,500 occupied dwelling units, on the average, are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for some other reason. There are also about 5,500 sample units in an average month which are visited but are found to be vacant or otherwise not to be enumerated. Data on the Armed Forces are obtained from the Department of Defense.

**Reliability of the estimates.**—According to current computations, the relative sampling error for summary estimates such as civilian labor force, total employment, and nonagricultural employment is about 0.4 percent; for agricultural employment and for unemployment, it is roughly 3 to 4 percent. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the percentage estimated above for the particular item. The chances are about 19 out of 20 that the difference would be less than twice the specified percentage and about 99 out of 100 that it would be less than 2½ times the percentage.

The sampling variability indicated above is illustrative of the variability of data based on the Current Population Survey. For further details on the sampling variability, see the original releases of the Bureau of the Census and explanatory notes in the Bureau of Labor Statistics *Employment and Earnings*.

**Comparability with Decennial Population Census data.**—Statistics obtained from the Current Population Survey may differ from Decennial Census data because of sampling variability, as described above. In addition, comparability between the two sets of data may be affected by other factors, such as differences in the training and experience of enumerators and in the enumeration procedures. For further information, see *U.S. Census of Population: 1960*, Vol. I.

Fig. XIII. TRENDS IN THE LABOR FORCE: 1952 TO 1962  
 [See table 286]



Source: Chart prepared by Department of Commerce, Bureau of Census. Data for 1952-June 1958 are from Bureau of the Census; thereafter, Department of Labor, Bureau of Labor Statistics.

# Employment Status

219

## No. 286. EMPLOYMENT STATUS OF THE NONINSTITUTIONAL POPULATION, BY SEX: 1940 TO 1963

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. Annual figures are averages of monthly figures. Data for 1947-1956 adjusted to reflect changes in definition of employment and unemployment adopted in January 1957. Beginning 1953, labor force and employment figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 Census data through March 1962 and of 1960 Census data thereafter. See also *Historical Statistics, Colonial Times to 1957*, series D 1-14 and D 20, for similar but not exactly comparable data.]

YEAR OR MONTH	Total noninstitu- tional popula- tion <sup>1</sup>	LABOR FORCE						NOT IN LABOR FORCE				
		Total, includ- ing Armed Forces	Civilian labor force				Total	Keep- ing house		In school	Other	
			Total	Employed	Unemployed			Total	Agricul- tural	Non- agricul- tural	Num- ber	Per- cent
<b>TOTAL</b>												
1940	100,380	56,180	55,640	47,520	9,540	37,980	8,120	14.6	44,200	27,760	4,830	7,640
1945	105,530	65,300	53,860	52,820	8,580	44,240	1,040	1.9	40,230	33,058	6,197	6,926
1950	110,929	64,749	63,099	59,748	7,497	52,251	3,351	5.3	46,181			
1951	112,075	65,983	62,884	60,784	7,048	53,736	2,099	3.3	46,092	33,105	5,829	7,150
1952	113,270	66,560	62,966	61,035	6,792	54,243	1,932	3.1	46,710	33,334	6,040	7,325
1953	115,094	67,362	63,815	61,945	6,555	55,390	1,870	2.9	47,732	34,025	6,034	7,675
1954	116,219	67,818	64,468	60,890	6,495	54,395	3,578	5.6	48,401	33,893	6,310	8,198
1955	117,388	68,836	65,848	62,944	6,718	56,225	2,904	4.4	48,492	33,722	6,569	8,201
1956	118,734	70,387	67,530	64,708	6,572	58,135	2,822	4.2	48,348	33,399	6,503	8,356
1957	120,445	70,744	67,946	65,011	6,222	58,789	2,936	4.3	49,699	33,892	7,047	8,759
1958	121,950	71,284	68,647	63,966	5,844	58,122	4,681	6.8	50,668	34,233	7,524	8,909
1959	123,366	71,946	69,394	65,581	5,836	59,745	3,813	5.5	51,420	34,487	7,761	9,172
1960	125,368	73,126	70,612	66,681	5,723	60,958	3,931	5.6	52,242	34,543	8,162	9,538
1961	127,852	74,175	71,603	66,796	5,403	61,335	4,806	6.7	53,677	34,897	9,001	9,779
1962	130,081	74,681	71,854	67,846	5,190	62,057	4,007	5.6	55,400	35,343	9,572	10,484
Mar.	129,471	73,582	70,697	66,316	4,732	61,533	4,382	6.2	55,889	35,084	12,300	8,505
1963, Mar.	131,589	74,382	71,650	67,148	4,337	62,812	4,501	6.3	57,208	35,141	13,020	9,047
<b>MALE</b>												
1940	50,080	42,020	41,480	35,550	8,450	27,100	5,930	14.3	8,060			
1950	54,526	46,069	44,442	42,162	6,271	35,891	2,280	5.1	8,457	81	3,244	5,132
1951	54,996	46,674	43,612	42,362	5,791	36,571	1,250	2.9	8,322	98	2,940	5,284
1952	55,503	47,001	43,454	42,237	5,623	36,614	1,217	2.8	8,502	69	3,002	5,431
1953	56,534	47,692	44,194	42,966	5,498	37,470	1,228	2.8	8,840	85	2,987	6,768
1954	57,016	47,847	44,537	42,165	5,429	36,736	2,372	5.3	9,169	111	3,152	5,906
1955	57,484	48,054	45,041	43,152	5,479	37,673	1,880	4.2	9,430	76	3,313	6,042
1956	58,044	48,579	46,756	43,999	5,268	38,731	1,757	3.8	9,465	93	3,289	6,083
1957	58,813	48,649	45,882	43,990	5,037	38,952	1,893	4.1	10,164	94	3,546	6,524
1958	59,478	48,802	46,197	43,042	4,802	38,240	3,155	6.8	10,677	102	3,800	6,774
1959	60,100	49,081	46,562	44,089	4,749	39,340	2,473	5.3	11,019	83	3,871	7,065
1960	61,000	49,507	47,025	44,485	4,678	39,807	2,541	5.4	11,493	87	4,097	7,310
1961	62,147	49,918	47,378	44,318	4,508	39,811	3,060	6.5	12,229	106	4,560	7,563
1962	63,234	50,175	47,380	44,892	4,266	40,626	2,488	5.3	13,059	111	4,839	8,109
Mar.	62,896	49,436	46,585	43,697	4,144	39,553	2,888	6.2	13,459	122	6,274	7,063
1963, Mar.	63,926	49,675	46,975	43,962	3,711	40,251	3,013	6.4	14,251	116	6,606	7,529
<b>FEMALE</b>												
1940	50,300	14,160	14,160	11,970	1,098	10,880	2,190	15.5	36,140			
1950	56,404	18,680	18,657	17,584	1,226	16,358	1,073	5.8	37,724	32,977	2,954	1,794
1951	57,078	19,309	19,272	18,421	1,257	17,164	851	4.4	37,770	33,007	2,888	1,875
1952	57,766	19,558	19,513	18,798	1,170	17,628	715	3.7	38,208	33,266	3,038	1,904
1953	58,561	19,668	19,621	18,979	1,061	17,918	642	3.3	38,893	33,040	3,047	1,907
1954	59,203	19,971	19,931	18,724	1,067	17,657	1,207	6.1	39,232	33,782	3,158	2,292
1955	59,904	20,842	20,806	19,790	1,239	18,551	1,016	4.9	39,062	33,646	3,256	2,160
1956	60,690	21,808	21,774	20,707	1,306	19,401	1,067	4.9	38,883	33,306	3,304	2,272
1957	61,632	22,097	22,064	21,021	1,184	19,837	1,043	4.7	39,585	33,798	3,501	2,235
1958	62,472	22,482	22,451	20,924	1,042	19,882	1,526	6.8	39,990	34,131	3,724	2,135
1959	63,265	22,865	22,832	21,492	1,087	20,405	1,340	5.9	40,401	34,404	3,890	2,107
1960	64,388	23,619	23,587	22,196	1,045	21,151	1,390	5.9	40,749	34,456	4,065	2,228
1961	65,705	24,257	24,225	22,478	955	21,523	1,747	7.2	41,448	34,791	4,440	2,216
1962	66,848	24,507	24,474	22,954	924	22,031	1,519	6.2	42,341	35,232	4,733	2,375
Mar.	66,576	24,146	24,112	22,619	638	21,980	1,493	6.2	42,430	34,962	6,026	1,442
1963, Mar.	67,663	24,707	24,675	23,186	625	22,560	1,489	6.0	42,957	35,024	6,414	1,518

<sup>1</sup> Excludes inmates of penal and mental institutions and homes for the aged, infirm, and needy.

## Labor Force, Employment, and Earnings

## No. 287. TOTAL LABOR FORCE, BY AGE AND SEX: 1945 TO 1963

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Includes Armed Forces abroad. See headnote, table 286. See also *Historical Statistics, Colonial Times to 1957*, series D 13-25]

YEAR OR MONTH	MALE					FEMALE						
	Total	14 to 19 years	20 to 24 years	25 to 44 years	45 to 64 years	Total	14 to 19 years	20 to 24 years	25 to 44 years	45 to 64 years		
1945.....	46,020	4,530	5,760	19,900	13,370	2,460	19,280	2,720	3,300	8,350	4,420	490
1950.....	46,069	3,444	5,224	20,986	13,652	2,453	18,680	1,982	2,681	8,267	5,167	584
1955.....	48,054	3,378	4,851	22,237	15,002	2,520	20,842	1,987	2,458	9,069	6,546	780
1960.....	49,507	3,821	5,089	22,270	16,036	2,287	23,619	2,409	2,590	9,447	8,266	907
1961.....	49,918	3,954	5,187	22,283	16,276	2,220	24,257	2,567	2,708	9,545	8,510	926
1962.....	50,175	4,032	5,272	22,262	16,368	2,241	24,507	2,613	2,814	9,590	8,581	911
March.....	49,436	3,473	5,140	22,231	16,378	2,210	24,146	2,293	2,634	9,612	8,643	944
1963, March.....	49,075	3,449	5,299	22,230	16,553	2,143	24,707	2,269	2,907	9,784	8,857	889

Source: 1945-June 1959, Department of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50 and P-57. Beginning July 1959, Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

## No. 288. LABOR FORCE—TOTAL, AND PARTICIPATION RATES, BY AGE AND SEX: 1960 AND PROJECTIONS, 1965 TO 1975

[Persons 14 years old and over. Includes Alaska and Hawaii. Annual averages. Rate represents the proportion of each age group in the labor force (employed, unemployed, or in the Armed Forces). Projections based on trends in average annual labor force participation rates between 1947 and 1961]

AGE AND SEX	TOTAL LABOR FORCE (1,000)				PARTICIPATION RATES (percent)			
	1960 <sup>1</sup>	1965	1970	1975	1960 <sup>1</sup>	1965	1970	1975
	Total	73,081	78,936	85,703	93,031	57.4	57.1	57.0
Male, 14 years and over.....	49,563	52,455	56,295	60,916	79.7	77.9	77.1	76.9
14 to 19 years.....	3,792	4,757	5,170	5,574	46.3	45.6	44.5	44.6
14 to 17 years.....	1,952	2,384	2,576	2,694	34.4	33.5	32.4	32.1
18 and 19 years.....	1,840	2,373	2,594	2,880	73.1	71.7	70.7	70.0
20 to 24 years.....	4,939	5,918	7,424	8,208	88.9	86.9	86.1	85.7
25 to 34 years.....	10,940	10,642	11,990	14,616	96.4	96.2	96.2	96.2
35 to 44 years.....	11,454	11,634	11,013	10,755	96.4	96.7	96.7	96.7
45 to 54 years.....	9,568	10,241	10,825	10,990	94.3	94.8	94.8	94.8
55 to 64 years.....	6,445	6,997	7,589	8,093	85.2	85.4	85.2	84.8
65 years and over.....	2,425	2,264	2,280	2,380	32.2	28.2	26.4	25.4
Female, 14 years and over.....	23,518	26,481	29,408	32,115	36.1	37.3	38.0	38.2
14 to 19 years.....	2,408	3,026	3,328	3,634	30.1	29.9	29.5	30.0
14 to 17 years.....	1,148	1,417	1,558	1,646	20.8	20.5	20.2	20.2
18 and 19 years.....	1,260	1,609	1,770	1,988	51.0	50.0	49.8	49.7
20 to 24 years.....	2,558	3,130	3,939	4,371	46.1	46.5	46.5	46.5
25 to 34 years.....	4,159	4,146	4,719	5,890	35.8	36.8	37.5	38.0
35 to 44 years.....	5,325	5,685	5,513	5,402	43.1	45.5	47.0	47.9
45 to 54 years.....	5,150	5,898	6,606	6,881	49.8	52.1	54.5	56.0
55 to 64 years.....	2,964	3,526	4,108	4,646	36.7	39.8	41.9	42.5
65 years and over.....	954	1,070	1,195	1,331	10.5	10.5	10.5	10.5

<sup>1</sup> Based on revised estimates; differ from figures in tables 286 and 287.

Source: Department of Labor, Bureau of Labor Statistics; *Interim Revised Projections of U.S. Labor Force, 1965-75, Special Labor Force Report*, No. 24.

## No. 289. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND AGRICULTURAL AND NONAGRICULTURAL OCCUPATIONS: 1940 to 1960

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. For definition of experienced civilian labor force, see text, p. 216]

YEAR	Population	EXPERIENCED CIVILIAN LABOR FORCE			
		Total	Male	Female	Agricultural <sup>1</sup>
					Number
1940.....	101,458	51,934	39,319	12,615	8,894
1950.....	112,801	59,230	42,722	16,507	6,858
1960.....	126,277	67,990	45,686	22,304	3,930

<sup>1</sup> Data not adjusted for relatively minor differences in agricultural and nonagricultural occupations.

<sup>2</sup> Includes persons in experienced civilian labor force who did not report occupation.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Population: 1960*, Vol. II, and records.

## Unemployment

221

## NO. 290. UNEMPLOYED AND PART-TIME EMPLOYED—SUMMARY: 1957 TO 1963

[In thousands, except as indicated; covers persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Through March 1962, 1950 Census population data used in estimation procedure; thereafter, 1960 Census.]

SUBJECT	1957	1958	1959	1960	1961	1962		1963, March
						Total	March	
UNEMPLOYED								
Total	2,936	4,681	3,813	3,931	4,806	4,007	4,382	4,501
On temporary layoff (less than 30 days)	150	166	128	147	149	121	115	105
Waiting to begin new job (within 30 days)	110	120	134	119	129	125	80	109
By color:								
White	2,350	3,743	3,004	3,127	3,819	3,120	3,404	3,561
Nonwhite	585	938	808	804	988	879	977	941
By age and sex:								
14 to 19 years	574	757	727	792	921	816	718	804
Male	351	473	451	480	542	472	420	513
Female	222	284	276	310	379	344	288	291
20 to 24 years	429	701	543	583	724	636	710	701
Male	283	478	343	369	457	381	447	475
Female	147	223	200	214	265	255	263	226
25 to 44 years	1,072	1,865	1,398	1,424	1,738	1,401	1,637	1,679
Male	653	1,287	890	907	1,092	851	1,071	1,067
Female	419	627	508	516	646	550	566	612
45 to 64 years	749	1,202	1,009	1,009	1,266	1,015	1,183	1,161
Male	522	841	677	686	847	681	833	825
Female	226	361	333	323	419	334	350	339
65 and over	112	155	135	121	158	140	134	153
Male	83	124	112	96	122	103	108	132
Female	28	31	23	25	36	37	26	21
Unemployment rate (percent): <sup>1</sup>								
All workers	4.3	6.8	5.5	5.6	6.7	5.6	6.2	6.3
White	3.9	6.1	4.9	5.0	6.0	4.9	5.4	5.6
Nonwhite	8.0	12.6	10.7	10.2	12.5	11.0	12.6	12.0
Experienced wage and salary workers	4.5	7.2	5.6	5.7	6.8	5.5	5.3	6.4
Married men, wife present	2.8	5.1	3.6	3.7	4.6	3.6	3.5	4.4
Percent without work for—								
4 weeks or less	50.6	39.2	43.5	45.8	39.5	43.8	36.0	34.5
5 to 10 weeks	22.1	20.5	20.4	20.9	20.1	20.2	17.0	21.4
11 to 14 weeks	8.2	9.4	8.8	9.0	8.6	8.1	13.1	13.3
15 to 26 weeks	10.9	16.8	12.3	12.8	15.2	13.3	17.1	15.5
Over 26 weeks	8.1	14.2	15.0	11.5	16.7	14.6	16.8	15.4
Average duration of unemployment weeks	10.4	13.8	14.5	12.8	15.5	14.7	16.5	16.0
PART-TIME EMPLOYED <sup>2</sup>								
Total	2,469	3,280	2,640	2,860	3,142	2,661	2,631	2,491
Agriculture	300	327	304	360	329	325	295	299
Nonagricultural industries	2,169	2,953	2,336	2,560	2,813	2,336	2,336	2,192
LABOR FORCE TIME LOST								
Percent <sup>3</sup>	5.3	8.1	6.6	6.7	8.0	6.7	46.7	6.9

<sup>1</sup> Percent of civilian labor force in specified group.

<sup>2</sup> Persons who worked less than 35 hours during survey week for economic reasons, such as slack work, material shortages or repairs, new job started, job terminated, or only part-time work found. Excludes persons with a job but not at work because of vacation, illness, bad weather, or industrial dispute.

<sup>3</sup> Assumes unemployed persons lost 37.5 hours per week and those on part-time for economic reasons lost difference between 37.5 hours and actual number of hours worked. <sup>4</sup> Seasonally adjusted.

## No. 291. PERSONS WITH A JOB BUT NOT AT WORK: 1957 TO 1963

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. See headnote, table 286]

YEAR OR MONTH	All indus- tries	Agri- culture	Non- agri- cul- tural indus- ties	REASON FOR NOT WORKING, ALL INDUSTRIES				
				Bad weather	Indus- trial dispute	Vaca- tion	Illness	All others
1957	3,017	196	2,821	139	45	1,447	982	425
1958	3,076	199	2,877	182	59	1,479	882	474
1959	3,161	186	2,974	115	160	1,494	907	484
1960	3,231	190	3,042	168	40	1,576	942	505
1961	3,146	200	2,946	143	56	1,492	898	556
1962	3,281	178	3,103	160	33	1,533	940	615
March	2,130	201	1,929	201	27	374	1,040	487
1963, March	2,677	241	2,436	188	41	380	1,403	665

Source of tables 290 and 291: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*, and records.

## Labor Force, Employment, and Earnings

## No. 292. CIVILIAN NONINSTITUTIONAL POPULATION—WORK EXPERIENCE DURING YEAR: 1955, 1960, AND 1961

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. Population figures as of January or February of following year]

WORK EXPERIENCE DURING YEAR	1955		1960		1961	
	Number	Percent	Number	Percent	Number	Percent
Total civilian noninstitutional population	115,164		124,384		126,404	
Total who worked during year	75,353	100.0	80,618	100.0	80,287	100.0
Worked at full-time jobs 50 to 52 weeks	42,624	56.6	43,265	53.7	43,006	53.6
Worked at full-time jobs 27 to 49 weeks	11,952	15.0	12,132	15.0	12,042	15.0
27 to 39 weeks	4,680	6.2	4,943	6.1	5,170	6.4
40 to 47 weeks	4,723	6.3	4,740	5.9	4,670	5.8
48 to 49 weeks	2,549	3.4	2,449	3.0	2,202	2.7
Worked part-time or intermittently	20,777	27.5	25,221	31.3	25,239	31.4
Worked at full-time jobs 13 weeks or less	4,060	5.4	4,297	5.3	4,607	5.7
Worked at full-time jobs 14 to 26 weeks	3,945	5.2	4,459	5.5	4,563	5.7
Worked at part-time jobs	12,772	16.9	16,465	20.4	16,069	20.0
Male civilian noninstitutional population	54,876		59,208		59,963	

Source: 1955, Department of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50, No. 68. Thereafter, Department of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, Nos. 19 and 25.

## No. 293. PERSONS WITH TWO OR MORE JOBS, BY TYPE OF INDUSTRY AND CLASS OF WORKER OF PRIMARY AND SECONDARY JOBS: 1960 AND 1962

[In thousands of persons 14 years old and over, except percent. Includes Alaska and Hawaii. Data for May 1962 not strictly comparable with earlier period because of introduction of 1960 Census data into estimating procedure]

INDUSTRY AND CLASS OF WORKER OF PRIMARY JOB	PERSONS WITH TWO OR MORE JOBS		INDUSTRY AND CLASS OF WORKER OF SECONDARY JOB					
	Total	Rate of multiple job-holding <sup>1</sup>	Agriculture			Nonagricultural industries		
			Total	Wage and salary workers	Self-employed workers	Total	Wage and salary workers	Self-employed workers
DECEMBER 1960								
Total	3,012	4.6	587	135	452	2,425	2,025	400
Agriculture	332	6.7	138	98	40	194	193	1
Wage and salary workers	97	6.7	81	41	40	16	15	1
Self-employed workers	208	7.6	51	51	(2)	157	157	(2)
Unpaid family workers	27	3.6	6	6	(3)	21	21	(3)
Nonagricultural industries	2,680	4.4	449	37	412	2,231	1,832	399
Wage and salary workers	2,489	4.6	443	31	412	2,046	1,647	399
Self-employed workers	184	2.8	6	6	(2)	178	178	(2)
Unpaid family workers	7	1.1			(3)	7	7	(3)
MAY 1962								
Total	3,342	4.9	645	176	469	2,697	2,176	521
Agriculture	364	6.7	141	109	32	223	218	5
Wage and salary workers	102	6.2	76	44	32	26	21	5
Self-employed workers	210	7.5	39	39	(2)	171	171	(2)
Unpaid family workers	52	5.2	26	26	(3)	26	26	(3)
Nonagricultural industries	2,978	4.7	504	67	437	2,474	1,958	516
Wage and salary workers	2,764	5.0	499	62	437	2,265	1,749	516
Self-employed workers	194	3.0	3	3	(2)	191	191	(2)
Unpaid family workers	20	2.9	2	2	(3)	18	18	(3)

<sup>1</sup> Persons with 2 or more jobs as a percent of all employed persons in industry—class-of-worker group.

<sup>2</sup> Self-employed persons with a secondary farm or business, but no wage or salary job, were not counted as multiple jobholders.

<sup>3</sup> Persons whose primary jobs were as unpaid family workers were counted as multiple jobholders only if they also held a wage or salary job.

Source: Department of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, Nos. 18 and 29.

# Agricultural and Nonagricultural Employment

223

## No. 294. CIVILIANS EMPLOYED IN AGRICULTURE AND IN NONAGRICULTURAL INDUSTRIES, BY HOURS WORKED DURING THE SURVEY WEEK: 1950 TO 1963

[In thousands of persons 14 years old and over. Beginning 1950, includes Alaska and Hawaii. Distribution by hours worked affected by occurrence of legal holidays in some survey weeks (calendar weeks containing 8th of each month prior to July 1955; thereafter calendar weeks containing 12th of each month). See headnote, table 280.]

YEAR OR MONTH	EMPLOYED IN AGRICULTURE				EMPLOYED IN NONAGRICULTURAL INDUSTRIES					
	Total	Worked 35 hours or more	Worked 15 to 34 hours	Worked 1 to 14 hours	With a job but not at work <sup>1</sup>	Total	Worked 35 hours or more	Worked 15 to 34 hours	Worked 1 to 14 hours	With a job but not at work <sup>1</sup>
1950.....	7,497	5,394	1,589	294	221	52,251	30,858	8,179	1,997	2,218
1951.....	7,048	5,108	1,486	263	191	53,736	42,554	6,898	2,016	2,268
1952.....	6,792	4,992	1,418	201	181	54,243	44,559	5,478	1,831	2,375
1953.....	6,555	4,843	1,326	209	177	55,390	44,388	6,793	1,856	2,353
1954.....	6,495	4,710	1,312	292	181	54,395	40,050	9,715	2,122	2,507
1955.....	6,718	4,888	1,332	314	184	56,225	45,045	6,422	2,261	2,497
1956.....	6,572	4,578	1,309	416	179	58,135	46,063	6,715	2,648	2,709
1957.....	6,222	4,197	1,413	416	106	58,789	46,238	6,953	2,777	2,821
1958.....	5,844	3,827	1,361	457	199	58,122	44,873	7,324	3,047	2,877
1959.....	5,836	3,852	1,356	442	186	59,745	45,068	8,531	3,172	2,974
1960.....	5,723	3,811	1,279	444	100	60,958	46,388	8,249	3,279	3,042
1961.....	5,463	3,540	1,245	477	200	61,333	47,257	7,522	3,610	2,946
1962.....	5,190	3,402	1,157	454	178	62,657	47,878	7,922	3,753	3,103
March.....	4,782	3,032	1,118	432	201	61,533	48,386	7,304	3,915	1,929
1963, March.....	4,337	2,587	1,042	467	241	62,812	48,660	7,588	4,119	2,436

<sup>1</sup> Persons who had a job or business, but who did not work at all during entire survey week because of illness, bad weather, vacation, industrial dispute, or various personal reasons.

Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*, and records.

## No. 295. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—ANNUAL AVERAGES, BY INDUSTRY DIVISION: 1940 TO 1963

[In thousands. Beginning 1950, includes Alaska and Hawaii. Includes all full- and part-time employees who worked during, or received pay for, any part of the pay period reported. Excludes proprietors, self-employed persons, farm workers, unpaid family workers, domestic servants, and personnel of Armed Forces. Data are adjusted to March 1950 benchmark levels indicated by data from Government social insurance programs. See also *Historical Statistics, Colonial Times to 1957*, series D 48-56]

YEAR OR MONTH	Total	Mining	Contract construction	Manufacturing	Transportation and public utilities	Whole-sale and retail trade	Finance, insurance, and real estate	Service and miscellaneous	Govern-ment
1940.....	32,376	925	1,294	10,985	3,038	6,750	1,502	3,681	4,202
1945.....	40,394	836	1,132	15,524	3,906	7,314	1,497	4,241	5,944
1950.....	45,222	901	2,333	15,241	4,034	9,386	1,019	5,382	6,026
1951.....	47,849	929	2,003	16,393	4,226	9,742	1,991	5,576	6,389
1952.....	48,825	898	2,634	16,632	4,248	10,004	2,069	5,730	6,609
1953.....	50,232	866	2,623	17,549	4,200	10,247	2,146	5,867	6,645
1954.....	49,022	791	2,612	16,314	4,084	10,235	2,234	6,002	6,751
1955.....	50,675	792	2,802	16,882	4,141	10,535	2,335	6,274	6,914
1956.....	52,408	822	2,999	17,243	4,244	10,885	2,429	6,586	7,277
1957.....	52,904	828	2,923	17,174	4,241	10,886	2,477	6,749	7,626
1958.....	51,423	751	2,778	15,945	8,976	10,750	2,519	6,811	7,893
1959.....	53,380	731	2,955	16,667	4,010	11,125	2,597	7,105	8,190
1960.....	54,347	709	2,882	16,762	4,017	11,412	2,684	7,361	8,520
1961.....	54,077	666	2,700	16,267	3,923	11,368	2,748	7,510	8,828
1962.....	55,325	647	2,696	16,750	3,925	11,571	2,793	7,757	9,185
March.....	54,056	640	2,328	16,525	3,880	11,223	2,754	7,573	9,133
1963, March (prel.) <sup>1</sup> .....	55,035	617	2,306	16,605	3,877	11,466	2,821	7,808	9,535

<sup>1</sup> Monthly averages.

Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

## Labor Force, Employment, and Earnings

**NO. 296. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—TOTAL AND PRODUCTION WORKERS, ANNUAL AVERAGES, BY INDUSTRY: 1950, 1960, AND 1962**

[In thousands. Beginning 1960, includes Alaska and Hawaii. See headnote, table 205.]

INDUSTRY	TOTAL EMPLOYEES			PRODUCTION WORKERS <sup>1</sup>		
	1950	1960	1962	1950	1960	1962
Total.....	45,222	54,347	55,325	n.a.	n.a.	n.a.
Mining.....	901	709	647	816	567	508
Metal mining.....	97	93	84	87	77	69
Coal mining.....	n.a.	182	144	n.a.	161	127
Crude petroleum and natural-gas production.....	266	314	304	227	229	217
Quarrying and nonmetallic mining.....	95	120	114	83	100	95
Contract construction.....	2,333	2,882	2,606	2,069	2,458	2,291
General building contractors.....	875	912	831	791	788	712
Heavy construction.....	419	581	555	370	609	485
Special trade contractors.....	1,039	1,389	1,310	908	1,161	1,094
Manufacturing.....	15,241	16,762	16,750	12,523	12,562	12,417
Durable goods.....	8,094	9,441	9,443	6,705	7,021	6,930
Ordnance and accessories.....	30	187	215	23	89	90
Lumber and wood products (excluding furniture) <sup>2</sup> .....	808	637	607	745	570	544
Logging camps and contractors.....	92	93	93	85	87	87
Sawmills and planing mills.....	451	295	269	424	269	245
Millwork, plywood, and related products.....	137	147	145	120	124	123
Wooden containers.....	65	43	40	60	39	36
Furniture and fixtures <sup>2</sup> .....	304	383	381	317	319	316
Household furniture.....	271	271	271	241	232	231
Office furniture.....	n.a.	28	29	n.a.	23	23
Partitions; office and store fixtures.....	n.a.	39	37	n.a.	29	27
Stone, clay, and glass products <sup>2</sup> .....	547	605	572	473	483	460
Flat glass.....	n.a.	31	30	n.a.	27	25
Glass and glassware, pressed or blown.....	n.a.	103	101	n.a.	87	86
Cement, hydraulic.....	40	43	40	34	35	32
Structural clay products.....	78	76	70	71	66	60
Pottery and related products.....	60	47	44	55	40	37
Concrete, gypsum, and plaster products.....	n.a.	155	152	n.a.	124	119
Primary metal industries <sup>2</sup> .....	1,247	1,229	1,166	1,075	992	938
Blast furnace and basic steel products.....	674	653	598	587	529	480
Iron and steel foundries.....	224	204	196	198	172	165
Nonferrous smelting and refining.....	n.a.	71	69	n.a.	55	53
Nonferrous rolling, drawing, and extruding.....	n.a.	176	177	n.a.	134	130
Nonferrous foundries.....	77	65	67	66	54	50
Fabricated metal products (excluding ordnance, machinery, and transportation equipment) <sup>2</sup> .....	982	1,129	1,118	812	809	850
Metal cans.....	57	63	62	50	54	52
Cutlery, hand tools, and general hardware.....	168	136	138	133	107	109
Heating equipment and plumbing fixtures.....	n.a.	79	77	n.a.	59	57
Fabricated structural metal products.....	222	334	327	172	238	231
Screw machine products, bolts, etc.....	n.a.	86	87	n.a.	67	69
Metal stampings.....	n.a.	198	190	n.a.	161	153
Coating, engraving, and allied services.....	n.a.	64	68	n.a.	54	57
Machinery (except electrical) <sup>2</sup> .....	1,210	1,471	1,450	929	1,030	1,016
Engines and turbines.....	n.a.	87	86	n.a.	56	57
Farm machinery and equipment.....	n.a.	114	118	n.a.	80	85
Construction and related machinery.....	n.a.	220	208	n.a.	145	138
Metalworking machinery and equipment.....	204	258	257	159	194	192
Special-industry machinery (excluding metalworking machinery).....	165	174	171	128	122	118
General industrial machinery.....	n.a.	223	220	n.a.	155	150
Office, computing, and accounting machines.....	n.a.	146	151	n.a.	95	95
Service-industry machines.....	n.a.	100	97	n.a.	70	67
Electrical equipment and supplies <sup>2</sup> .....	991	1,446	1,528	770	987	1,035
Electric distribution equipment.....	n.a.	163	162	n.a.	108	107
Electrical industrial apparatus.....	n.a.	177	170	n.a.	122	120
Household appliances.....	n.a.	157	154	n.a.	121	117
Electric lighting and wiring equipment.....	n.a.	133	136	n.a.	104	106
Radio and TV receiving sets.....	n.a.	112	127	n.a.	82	95
Communication equipment.....	n.a.	367	416	n.a.	201	221
Electronic components and accessories.....	n.a.	225	243	n.a.	184	181

See footnotes at end of table.

## Nonagricultural Employment, by Industry

225

No. 296. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—TOTAL AND PRODUCTION WORKERS, ANNUAL AVERAGES, BY INDUSTRY: 1950, 1960, AND 1962—Con.

[In thousands]

INDUSTRY	TOTAL EMPLOYEES			PRODUCTION WORKERS <sup>1</sup>		
	1950	1960	1962	1950	1960	1962
Transportation equipment <sup>2</sup>						
Motor vehicles and equipment	1,265	1,017	1,645	1,029	1,133	1,122
Aircraft and parts	816	728	724	677	567	559
Ship and boat building and repairing	283	674	707	209	393	389
Railroad equipment	85	141	143	72	117	120
Instrument and related products	60	44	43	45	32	32
Engineering and scientific instruments	250	354	358	189	232	228
Mechanical measuring and control devices	n.a.	70	73	n.a.	43	39
Optical and ophthalmic goods	n.a.	95	95	n.a.	63	62
Surgical, medical, and dental equipment	n.a.	41	42	n.a.	31	31
Photographic equipment and supplies	n.a.	47	49	n.a.	33	34
Watches and clocks	53	69	70	38	41	40
Miscellaneous manufacturing industries <sup>2</sup>	33	27	29	28	21	23
Jewelry, silverware, and plated ware	400	392	393	344	316	317
Toys, amusement, and sportswear	57	43	42	46	34	32
Pens, pencils, office and art materials	78	102	107	70	86	90
Costume jewelry, buttons, and notions	n.a.	31	33	n.a.	23	25
Nondurable goods	64	58	55	57	47	46
Food and kindred products <sup>2</sup>	7,147	7,321	7,308	5,817	5,541	5,487
Meat products	1,700	1,703	1,772	1,331	1,211	1,178
Dairy products	295	321	311	241	258	249
Canned and preserved food, except meats	n.a.	317	309	n.a.	170	156
Grain-mill products	235	242	246	209	206	208
Bakery products	n.a.	128	127	n.a.	90	89
Sugar	291	308	305	200	177	175
Confectionery and related products	36	37	33	31	30	27
Beverages	92	80	79	76	64	63
Tobacco manufactures <sup>2</sup>	223	218	219	142	118	115
Cigarettes	103	94	89	95	83	78
Cigars	29	37	37	26	32	31
Textile mill products <sup>2</sup>	41	28	23	39	26	21
Cotton broad woven fabrics	1,256	915	881	1,169	827	793
Silk and synthetic broad woven fabrics	n.a.	260	248	n.a.	244	229
Weaving and finishing broad woools	n.a.	73	70	n.a.	67	63
Narrow fabrics and small wares	n.a.	56	51	n.a.	50	46
Knitting	n.a.	28	27	n.a.	24	24
Finishing textiles, except wool and knit	249	214	212	230	194	191
Floor covering	94	74	72	83	64	62
Yarn and thread	n.a.	36	34	n.a.	30	28
Apparel and related products <sup>2</sup>	1,158	104	103	148	96	95
Men's and boys' suits and coats	1,202	1,228	1,235	1,080	1,094	1,093
Men's and boys' furnishings and work clothing	140	122	118	127	109	105
Women's, misses', and juniors' outerwear	273	308	326	253	280	296
Women's, children's undergarments	369	361	347	334	326	311
Millinery	105	120	122	94	106	108
Children's outerwear	62	76	77	56	68	.69
Fur goods and miscellaneous apparel	n.a.	69	69	n.a.	60	60
Paper and allied products	485	593	602	416	474	477
Paper and pulp	n.a.	224	227	n.a.	182	183
Paperboard	n.a.	69	67	n.a.	56	54
Converted paper and paperboard products	n.a.	124	129	n.a.	96	97
Paperboard containers and boxes	140	175	179	121	140	144
Printing, publishing, and allied industries <sup>2</sup>	748	917	933	494	502	597
Newspapers	280	333	342	147	172	176
Periodicals	63	71	69	32	30	28
Books	49	71	75	29	43	46
Commercial printing	n.a.	289	292	n.a.	230	231
Bookbinding and related industries	n.a.	47	48	n.a.	38	39
Chemicals and allied products <sup>2</sup>	640	830	850	461	511	519
Industrial chemicals	n.a.	287	286	n.a.	169	166
Plastics and synthetics, except glass	n.a.	153	161	n.a.	104	110
Drugs	88	107	110	58	59	59
Soap, cleaners, and toilet goods	n.a.	92	99	n.a.	56	.60
Paints, varnishes, and allied products	n.a.	64	63	n.a.	37	36
Agricultural chemicals	n.a.	45	45	n.a.	31	31
Petroleum refining and related industries	218	212	196	165	138	126
Petroleum refining	185	178	162	140	113	102
Other petroleum and coal products	n.a.	34	35	n.a.	25	24

See footnotes at end of table.

**No. 296. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—TOTAL AND PRODUCTION WORKERS, ANNUAL AVERAGES, BY INDUSTRY: 1950, 1960, AND 1962—Con.**

[In thousands]

INDUSTRY	TOTAL EMPLOYEES			PRODUCTION WORKERS <sup>1</sup>		
	1950	1960	1962	1950	1960	1962
Rubber and miscellaneous plastic products <sup>2</sup>	311	374	389	252	289	301
Tires and inner tubes	110	107	104	87	78	76
Leather and leather products <sup>2</sup>	395	366	361	355	323	319
Leather tanning and finishing	51	34	33	47	30	29
Footwear, except rubber	252	243	239	220	216	214
<b>Transportation and public utilities</b>	<b>4,034</b>	<b>4,017</b>	<b>3,925</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Railroad transportation	1,301	887	801	n.a.	n.a.	n.a.
Class I railroads	1,221	781	701	n.a.	n.a.	n.a.
Local and interurban passenger transit	n.a.	233	204	n.a.	n.a.	n.a.
Motor freight transportation and storage	619	874	910	n.a.	802	831
Air transportation	n.a.	191	205	n.a.	n.a.	n.a.
Pipeline transportation	n.a.	23	21	n.a.	20	18
Other transportation	n.a.	308	298	n.a.	n.a.	n.a.
Communication	n.a.	839	819	n.a.	n.a.	n.a.
Telephone	620	706	690	n.a.	582	561
Telegraph	44	38	36	n.a.	28	26
Radio and television broadcasting	n.a.	92	91	n.a.	78	76
Electric, gas, and sanitary services	554	613	607	517	544	533
Electric companies and systems	239	254	249	225	220	214
Gas companies and systems	118	153	152	111	137	135
Combined utility systems	169	175	175	157	159	158
Water, steam, and sanitary systems	28	30	30	25	27	26
<b>Wholesale and retail trade</b>	<b>9,386</b>	<b>11,412</b>	<b>11,571</b>	<b>7,489</b>	<b>8,810</b>	<b>8,860</b>
Wholesale trade	2,518	3,009	3,071	2,294	2,610	2,638
Retail trade <sup>2</sup>	6,868	8,403	8,500	5,194	6,201	6,222
General merchandise stores	1,409	1,563	1,577	n.a.	1,448	1,451
Food stores	n.a.	1,356	1,377	n.a.	1,273	1,285
Apparel and accessories stores	556	637	668	n.a.	582	606
Furniture and appliance stores	n.a.	409	413	n.a.	369	368
Eating and drinking places	n.a.	1,627	1,649	n.a.	n.a.	n.a.
<b>Finance, insurance, and real estate</b>	<b>1,919</b>	<b>2,684</b>	<b>2,793</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Banking	435	675	714	n.a.	576	606
Credit agencies other than banks	n.a.	250	267	n.a.	n.a.	n.a.
Security dealers and exchanges	62	114	129	n.a.	107	120
Insurance carriers	n.a.	839	865	n.a.	764	780
Insurance agents, brokers, and services	n.a.	196	201	n.a.	n.a.	n.a.
Real estate	n.a.	527	542	n.a.	n.a.	n.a.
Other finance, insurance, and real estate	n.a.	77	75	n.a.	n.a.	n.a.
<b>Service and miscellaneous<sup>2</sup></b>	<b>5,382</b>	<b>7,361</b>	<b>7,757</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Hotels and lodging places	481	568	626	n.a.	n.a.	n.a.
Personal services, laundries, cleaning and dyeing plants	n.a.	521	504	n.a.	389	369
Misc. business services, advertising	n.a.	110	112	n.a.	n.a.	n.a.
Motion pictures	248	189	174	n.a.	n.a.	n.a.
Medical services, hospitals	n.a.	1,105	1,184	n.a.	n.a.	n.a.
<b>Government</b>	<b>6,026</b>	<b>8,520</b>	<b>9,185</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Federal	1,928	2,270	2,341	n.a.	n.a.	n.a.
State and local	4,098	6,250	6,844	n.a.	n.a.	n.a.

n.a. Not available.

<sup>1</sup> For mining and manufacturing, data refer to production and related workers; for construction, to construction workers; and for all other industries, to nonsupervisory workers.

<sup>2</sup> Includes industries not shown separately.

Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

# Nonagricultural Employment, by States

227

## No. 297. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS, ANNUAL AVERAGES— TOTAL, 1960 AND 1962, AND BY INDUSTRY DIVISION, 1962, BY STATES

[In thousands. For coverage, see headnote, table 295. National totals differ from the sum of the State figures because a few States prepare combinations of industry divisions, some States have more recent benchmark levels than others, and methods of computation may vary slightly among the States]

STATE	TOTAL		INDUSTRY DIVISION, 1962							
	1960	1962	Mining	Contract construction	Manufacturing	Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Service and miscellaneous	Government
<b>United States</b>	<b>54,347</b>	<b>55,325</b>	<b>647</b>	<b>2,695</b>	<b>16,752</b>	<b>3,925</b>	<b>11,572</b>	<b>2,794</b>	<b>7,757</b>	<b>9,184</b>
<b>New England:</b>										
Maine	278	280	(1)	13	105	17	53	10	31	51
New Hampshire	198	205	(2)	10	89	10	35	7	30	24
Vermont	107	109	1	6	36	7	21	4	18	17
Massachusetts	1,917	1,952	(3)	79	685	103	396	104	322	264
Rhode Island	292	295	(1)	12	119	15	54	13	42	41
Connecticut	917	949	(3)	44	418	45	168	56	120	99
<b>Middle Atlantic:</b>										
New York	6,173	6,271	9	272	1,849	472	1,276	506	1,012	876
New Jersey	2,013	2,081	3	99	810	151	393	93	278	254
Pennsylvania	3,717	3,690	49	153	1,397	266	688	156	516	465
<b>East North Central:</b>										
Ohio	3,147	3,094	19	127	1,213	198	606	125	381	426
Indiana	1,431	1,460	10	57	600	89	290	61	151	202
Illinois	3,518	3,561	27	154	1,204	273	748	194	513	447
Michigan	2,351	2,323	13	86	939	129	446	87	282	341
Wisconsin	1,192	1,208	3	53	455	72	247	48	153	178
<b>West North Central:</b>										
Minnesota	960	982	14	54	238	79	237	51	148	161
Iowa	679	683	3	32	174	49	170	33	99	121
Missouri	1,348	1,355	7	66	386	116	311	73	193	204
North Dakota	126	127	2	11	6	12	36	6	22	32
South Dakota	142	151	3	14	14	10	40	7	23	41
Nebraska	381	393	3	24	68	37	97	24	59	82
Kansas	559	570	16	36	117	52	131	24	75	121
<b>South Atlantic:</b>										
Delaware	154	154	(1)	11	55	11	30	6	21	20
Maryland	896	948	3	67	258	71	203	47	141	159
Dist. of Columbia	536	567	(4)	24	20	30	85	29	99	280
Virginia	1,018	1,080	16	76	261	82	224	48	136	207
West Virginia	460	446	48	16	123	41	80	14	53	71
North Carolina	1,196	1,251	3	68	528	65	225	47	136	179
South Carolina	583	607	2	35	260	26	104	23	59	99
Georgia	1,051	1,097	5	58	347	73	230	53	126	205
Florida	1,321	1,383	9	112	222	101	372	88	234	245
<b>East South Central:</b>										
Kentucky	654	669	29	41	172	51	141	27	88	120
Tennessee	925	964	7	50	329	55	197	43	130	155
Alabama	776	791	10	41	239	49	154	34	97	168
Mississippi	404	425	6	23	128	25	85	15	49	94
<b>West South Central:</b>										
Arkansas	367	396	5	24	113	28	85	15	50	76
Louisiana	790	795	44	54	139	78	180	37	108	155
Oklahoma	582	602	44	35	90	47	140	29	79	138
Texas	2,532	2,631	121	174	501	222	658	136	359	459
<b>Mountain:</b>										
Montana	167	170	7	12	22	18	39	7	24	41
Idaho	155	163	3	11	32	14	40	6	21	36
Wyoming	97	96	9	9	7	11	21	3	13	23
Colorado	515	549	13	36	93	44	128	28	85	122
New Mexico	236	242	19	17	17	20	50	10	42	68
Arizona	334	363	16	32	55	25	85	19	56	77
Utah	265	287	13	18	54	22	63	12	37	69
Nevada	103	124	3	11	6	10	23	4	45	22
<b>Pacific:</b>										
Washington	813	851	2	44	232	61	185	41	110	175
Oregon	509	524	1	26	141	43	116	23	71	103
California	4,894	5,209	30	296	1,387	357	1,119	271	786	964
Alaska	57	58	1	4	6	7	8	2	6	24
Hawaii	189	195	(1)	15	25	15	45	11	33	52

<sup>1</sup> Mining combined with Service and miscellaneous.

<sup>2</sup> Less than 500.

<sup>3</sup> Mining combined with Contract construction.

No. 298. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—PERCENT DISTRIBUTION, BY INDUSTRY DIVISION, BY STATES: 1960 AND 1962

[For base figures, see table 297]

STATE	MINING		CONTRACT CONSTRUCTION		MANUFACTURING		TRANSPORTATION AND PUBLIC UTILITIES		WHOLESALE AND RETAIL TRADE		FINANCE, INSURANCE, AND REAL ESTATE		SERVICE AND MISCELLANEOUS		GOVERNMENT		
	1960	1962	1960	1962	1960	1962	1960	1962	1960	1962	1960	1962	1960	1962	1960	1962	
U.S.	1.3	1.2	5.3	4.9	30.8	30.3	7.4	7.1	21.0	20.9	4.9	5.0	13.5	14.0	15.7	16.6	
N.E.:																	
Maine	(4)	(1)	4.9	4.8	37.7	37.4	6.5	6.2	19.4	19.0	3.2	3.4	10.9	11.2	17.4	18.0	
N.H.	0.2	0.2	5.0	4.9	44.0	43.3	4.9	4.7	17.3	17.3	3.6	3.6	13.6	14.4	11.4	11.6	
Vt.	1.2	1.1	5.6	5.0	33.0	32.6	7.0	6.4	19.1	19.3	3.6	3.8	15.6	16.7	14.9	15.1	
Mass.	(1)	(2)	4.1	4.0	36.4	35.1	5.5	5.3	20.2	20.3	5.2	5.3	15.6	16.5	13.0	13.5	
R.I.	(1)	(1)	4.1	4.1	41.0	40.2	5.0	4.9	18.3	18.4	4.3	4.4	13.5	14.1	13.8	13.9	
Conn.	(2)	(2)	4.9	4.7	44.4	44.0	4.9	4.7	17.4	17.6	5.8	5.9	12.4	12.7	10.2	10.4	
M.A.:																	
N.Y.	0.2	0.1	4.2	4.3	30.6	29.5	7.8	7.5	20.2	20.4	7.8	8.1	15.6	16.1	13.6	14.0	
N.J.	0.2	0.2	4.9	4.7	40.2	38.9	7.4	7.3	18.6	18.9	4.4	4.5	12.5	13.3	11.8	12.2	
Pa.	1.6	1.3	4.2	4.1	38.7	37.9	7.5	7.2	18.7	18.7	4.1	4.2	13.5	14.0	11.7	12.6	
E.N.C.:																	
Ohio	0.7	0.6	4.6	4.1	40.1	39.2	6.6	6.4	19.7	19.6	3.8	4.0	11.8	12.3	12.7	13.8	
Ind.	0.7	0.6	4.4	3.9	41.5	41.1	6.6	6.1	19.8	19.9	4.0	4.2	9.8	10.4	13.2	13.8	
Ill.	0.8	0.8	4.7	4.3	34.4	33.8	8.1	7.7	21.1	21.0	5.3	5.4	13.7	14.4	11.9	12.6	
Mich.	0.7	0.6	4.1	3.7	41.2	40.4	6.0	5.6	19.2	19.2	3.5	3.7	11.2	12.1	14.1	14.7	
Wis.	0.3	0.3	4.7	4.4	38.6	37.7	6.3	5.9	20.5	20.4	3.8	3.9	12.1	12.7	13.7	14.7	
W.N.C.:																	
Minn.	1.9	1.5	5.8	5.5	23.9	24.3	8.7	8.0	24.7	24.1	5.0	5.2	14.4	15.0	15.6	16.4	
Iowa	0.5	0.5	5.4	4.7	26.0	25.5	7.9	7.3	25.0	24.9	4.7	4.8	13.6	14.5	16.9	17.8	
Mo.	0.6	0.5	4.7	4.8	29.1	28.5	9.1	8.6	23.2	23.0	5.3	5.4	13.7	14.2	14.3	15.0	
N. Dak.	1.5	1.3	7.8	8.3	5.2	5.0	10.1	9.5	20.6	20.4	4.4	4.6	16.5	17.4	24.9	25.5	
S. Dak.	1.7	1.6	8.0	9.0	9.2	9.1	7.2	6.8	27.2	26.4	4.0	4.3	15.2	15.4	27.5	27.4	
Nebr.	0.7	0.6	6.4	6.1	17.5	17.4	9.9	9.3	24.6	24.7	5.9	6.0	14.5	14.9	20.5	21.0	
Kans.	3.0	2.8	6.1	6.2	20.7	20.5	9.6	9.1	23.3	23.0	4.2	4.2	12.5	13.1	20.6	21.1	
S.A.:																	
Del.	(1)	(1)	6.8	7.0	38.2	35.9	7.2	6.9	19.0	19.5	4.0	4.1	12.6	13.5	12.2	13.1	
Md.	0.3	0.3	6.9	7.1	28.9	27.2	8.1	7.4	21.3	21.4	4.9	5.0	13.7	14.9	315.0	316.7	
D.C.	(1)	(1)	3.9	4.1	3.8	3.6	5.3	5.3	15.7	15.0	5.1	5.2	17.3	17.4	348.0	340.4	
Va.	1.6	1.5	6.6	7.0	27.0	27.0	8.2	7.6	21.3	20.7	4.3	4.4	12.2	12.6	318.8	319.2	
W. Va.	12.2	10.8	4.0	3.6	27.1	27.5	9.6	9.3	18.4	18.0	2.9	3.0	11.1	11.8	14.7	16.0	
N.C.	0.3	0.3	5.5	5.4	42.6	42.2	5.4	5.2	18.4	18.0	3.5	3.8	10.6	10.8	13.7	14.3	
S.C.	0.3	0.3	5.9	5.8	42.0	42.8	4.4	4.2	17.7	17.1	3.7	3.8	9.5	9.7	16.5	16.3	
Ga.	0.5	0.5	5.3	5.3	32.4	31.6	7.0	6.7	21.4	21.0	4.7	4.8	11.0	11.4	17.7	18.7	
Fla.	0.6	0.6	9.2	8.1	15.6	16.1	7.6	7.3	27.5	26.9	6.2	6.4	16.6	16.9	16.7	17.7	
E.S.C.:																	
Ky.	5.2	4.4	5.5	6.1	26.2	25.7	8.0	7.6	21.4	21.0	3.8	4.0	13.0	13.2	16.9	18.0	
Tenn.	0.8	0.7	5.1	5.2	34.0	34.1	6.0	5.7	21.0	20.4	4.3	4.4	13.0	13.5	15.8	16.0	
Ala.	1.7	1.3	5.5	5.1	30.5	30.3	6.4	6.2	19.4	19.4	4.2	4.2	11.7	12.3	20.6	21.2	
Miss.	1.7	1.5	5.6	5.3	29.7	30.0	6.3	5.9	20.9	20.0	3.3	3.6	10.9	11.5	21.6	22.2	
W.S.C.:																	
Ark.	1.5	1.3	5.5	6.0	27.8	28.4	7.7	7.1	22.1	21.4	3.7	4.0	12.6	12.7	19.1	19.2	
La.	5.6	5.5	7.0	6.7	18.0	17.5	10.6	9.9	23.1	22.7	4.4	4.6	12.9	13.7	18.4	19.4	
Oklahoma	7.8	7.3	5.9	5.8	14.9	15.0	8.3	7.9	23.6	23.2	4.5	4.7	12.5	13.1	22.5	23.0	
Texas	4.8	4.6	6.4	6.6	19.3	19.1	9.0	8.4	25.3	25.0	5.1	5.2	13.1	13.7	17.0	17.4	
Mt.:																	
Mont.	4.4	4.1	6.6	7.2	12.2	12.9	11.4	10.6	24.3	23.2	4.1	3.9	13.9	14.0	23.1	24.1	
Idaho	1.6	2.0	6.2	6.5	19.4	19.4	9.7	8.7	25.5	24.8	3.7	3.8	12.8	12.6	21.1	22.2	
Wyo.	10.0	9.4	11.2	9.3	8.6	7.7	12.3	11.6	21.5	21.9	3.1	3.3	11.2	13.1	22.1	23.7	
Colo.	3.0	2.3	6.5	6.6	17.0	17.0	8.5	8.0	24.0	23.3	4.9	5.0	14.8	15.6	21.3	22.2	
N. Mex.	8.6	7.7	8.0	7.0	7.1	7.0	8.7	8.1	20.9	20.8	4.0	4.2	15.8	17.2	26.9	28.0	
Ariz.	4.6	4.3	9.5	8.7	14.8	15.0	7.4	6.8	23.9	23.5	4.9	5.1	14.6	15.3	20.4	21.3	
Utah	5.2	4.6	5.6	6.2	17.7	18.6	8.4	7.7	22.5	22.5	4.5	4.5	12.6	12.7	23.5	23.9	
Nev.	3.4	2.3	7.5	9.1	5.2	4.9	8.8	8.0	18.8	18.2	3.3	3.5	34.8	36.4	18.2	17.6	
Pac.:																	
Wash.	0.2	0.2	5.5	5.2	26.7	27.2	7.5	7.1	22.2	21.8	4.7	4.9	12.7	13.0	20.5	20.6	
Oreg.	0.2	0.3	5.1	5.0	28.4	27.0	8.7	8.2	22.3	22.1	4.1	4.3	12.5	13.5	18.7	19.6	
Calif.	0.6	0.6	5.9	5.7	26.9	26.6	7.3	6.8	21.8	21.5	5.1	5.2	14.5	15.1	17.9	18.5	
Alaska	1.9	2.1	10.4	6.9	10.3	9.5	12.0	12.5	13.6	14.2	2.7	2.9	9.4	10.4	39.7	41.5	
Hawaii	(1)	(1)	9.3	7.7	14.1	13.0	7.8	7.6	22.7	23.1	4.9	5.5	14.9	16.6	26.3	26.5	

<sup>1</sup> Mining combined with Service and miscellaneous.

<sup>2</sup> Mining combined with Contract construction.

<sup>3</sup> Federal employment in the Maryland and Virginia sectors of Washington, D.C. standard metropolitan statistical area is included in District of Columbia.

Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

## No. 299. MARITAL STATUS OF WOMEN IN THE CIVILIAN LABOR FORCE: 1940 TO 1962

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. Includes institutional population. Figures for 1940 based on complete census revised for comparability with intercensal series. Data for 1944-1962 based on Current Population Survey; see Technical Note, p. 217. Beginning 1953, figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 Census data through 1961 and of 1960 Census data in March 1962. (April 1962 for labor force data not relating to marital status or educational attainment). See also table 31. See also *Historical Statistics, Colonial Times to 1957*, series D 33-35]

MONTH AND YEAR	FEMALE LABOR FORCE (1,000)				PERCENT DISTRIBUTION OF FEMALE LABOR FORCE				FEMALE LABOR FORCE AS PERCENT OF FEMALE POPULATION, 14 AND OVER				
	Total	Single	Married		Widowed or di- vorced	Single	Married		Widowed or di- vorced	Total	Single	Married	Widowed or di- vorced
			Total	Hus- band pres- ent			Total	Hus- band pres- ent					
March 1940	13,840	6,710	5,040	4,200	2,000	48.5	36.4	130.3	15.1	27.4	48.1	16.7	32.0
April 1944	18,449	7,542	8,433	6,226	2,474	40.9	45.7	33.7	13.4	35.0	58.6	25.6	35.7
April 1947	16,323	6,181	7,573	6,076	2,507	37.9	46.2	40.9	15.9	29.8	51.2	21.4	34.6
March 1950	17,798	5,621	9,273	8,550	2,901	31.6	52.1	48.0	16.3	31.4	50.5	24.8	36.0
April 1951	18,602	5,430	10,182	9,086	2,990	29.2	54.7	48.8	16.1	32.4	49.6	26.7	36.1
April 1952	18,812	5,532	10,350	9,222	2,930	29.4	55.0	49.0	15.6	32.4	50.0	26.8	35.3
April 1953	19,304	5,223	10,908	9,763	3,174	27.1	56.5	50.6	16.4	32.8	48.5	27.7	36.3
April 1954	19,726	5,412	11,208	9,923	3,105	27.4	56.8	50.3	15.7	33.1	49.0	28.1	36.0
April 1955	20,154	5,087	11,839	10,423	3,227	25.2	58.7	51.7	16.0	33.5	46.4	29.4	36.0
March 1956	20,842	5,167	12,278	11,126	3,307	24.8	58.9	53.4	16.3	34.2	46.4	30.2	36.9
March 1957	21,524	5,378	12,696	11,529	3,450	25.0	59.0	53.6	16.0	34.8	46.8	30.8	37.6
March 1958	22,000	5,365	13,032	11,826	3,604	24.4	59.2	53.8	16.4	35.0	45.4	31.4	37.9
March 1959	22,376	5,162	13,586	12,205	3,628	23.1	60.7	54.5	16.2	35.2	43.4	32.3	38.0
March 1960	22,510	5,401	13,485	12,253	3,629	24.0	59.9	54.4	16.1	34.8	44.1	31.7	37.1
March 1961	24,199	5,663	14,612	13,266	3,924	23.4	60.4	54.8	16.2	36.8	44.4	34.0	39.0
March 1962	23,978	5,481	14,770	13,485	3,727	22.9	61.6	56.2	15.5	35.7	41.7	33.7	36.6

<sup>1</sup> As of April.

Source: 1940-1958, Department of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1959, Department of Labor, Bureau of Labor Statistics; *Special Labor Force Reports*, Nos. 2, 13, 20, and 26.

## No. 300. CIVILIAN FEMALE POPULATION—TOTAL AND LABOR FORCE, BY MARITAL STATUS AND AGE: 1962

[In thousands of persons 14 years old and over, except percent. As of March. Includes Alaska and Hawaii. Includes institutional population. See headnote, table 286]

MARITAL STATUS AND AGE	Popula- tion	LABOR FORCE		MARITAL STATUS AND AGE	Popula- tion	LABOR FORCE	
		Num- ber	Percent of popu- lation			Num- ber	Percent of popu- lation
<b>Total</b>	67,166	23,978	35.7	<b>Married, husband pres- ent</b>	41,218	13,485	32.7
14 to 19 years	8,916	2,260	25.4	14 to 19 years	920	253	27.5
20 to 24 years	5,860	2,028	44.8	20 to 24 years	3,726	1,177	31.6
25 to 34 years	11,368	4,150	36.5	25 to 34 years	9,260	2,725	29.4
35 to 44 years	12,477	5,466	43.8	35 to 44 years	10,391	4,053	39.0
45 to 64 years	19,016	8,484	44.6	45 to 64 years	13,481	5,017	37.2
65 years and over	9,520	981	10.3	65 years and over	3,431	260	7.6
Median age—years	40.9	40.6		Median age—years	41.3	41.6	
<b>Single</b>	13,134	5,481	41.7	<b>Other marital status</b>	12,814	5,012	39.1
14 to 19 years	7,843	1,964	25.0	14 to 19 years	153	52	34.0
20 to 24 years	1,717	1,218	70.9	20 to 24 years	426	233	54.7
25 to 34 years	978	780	79.8	25 to 34 years	1,121	645	57.5
35 to 44 years	660	510	77.3	35 to 44 years	1,426	903	63.3
45 to 64 years	1,255	891	71.0	45 to 64 years	4,280	2,576	60.2
65 years and over	681	118	17.3	65 years and over	5,408	603	11.2
Median age—years	18.7	23.2		Median age—years	61.1	50.4	

Source: Department of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, No. 26.

## No. 301. WOMEN EMPLOYEES IN SELECTED INDUSTRIES: 1950 TO 1962

[In thousands, except percent. As of October. Beginning 1960, includes Alaska and Hawaii. Data are adjusted to March 1959 benchmark levels indicated by data from Government social insurance programs]

INDUSTRY GROUP	1950		1960		1961		1962	
	Number	Percent of total employment						
<b>MANUFACTURING</b>								
Total	4,291	26	4,418	26	4,425	27	4,557	27
Durable goods	1,481	17	1,670	18	1,695	18	1,781	19
Ordnance and accessories	7	20	36	19	39	19	42	19
Lumber and wood products (except furniture)	57	7	43	7	43	7	44	7
Furniture and fixtures	64	17	66	17	67	18	69	18
Stone, clay, and glass products	94	16	91	15	88	15	90	15
Primary metal industries	74	6	72	6	71	6	71	6
Fabricated metal products	193	18	185	16	185	17	190	17
Machinery	167	13	189	13	187	13	193	13
Electrical equipment and supplies	413	38	521	37	551	37	504	38
Transportation equipment	181	9	182	11	172	11	186	11
Instruments and related products	94	35	115	33	118	33	122	34
Miscellaneous manufacturing industries	189	42	170	41	173	42	180	43
Nondurable goods	2,810	37	2,748	37	2,730	37	2,776	37
Food and kindred products	479	25	480	25	471	25	404	25
Tobacco manufactures	70	58	58	51	54	49	52	48
Textile-mill products	571	43	395	44	303	44	336	44
Apparel and related products	931	74	958	78	953	78	901	79
Paper and allied products	126	25	129	22	127	21	127	21
Printing, publishing, and allied industries	211	28	264	28	266	29	273	29
Chemicals and allied products	121	18	153	19	155	19	161	19
Petroleum refining and related industries	13	6	17	8	17	8	16	8
Rubber and miscellaneous plastic products	99	29	105	28	109	29	118	29
Leather and leather products	190	47	189	52	186	52	188	52
<b>NONMANUFACTURING</b>								
Mining	n.a.	n.a.	35	5	34	5	35	5
Transportation and public utilities <sup>1</sup>	n.a.	n.a.	666	17	654	17	649	16
Wholesale trade	n.a.	n.a.	703	23	690	23	700	22
Retail trade	n.a.	n.a.	3,650	43	3,618	43	3,680	43
Finance, insurance, and real estate	n.a.	n.a.	1,358	50	1,379	50	1,401	50

n.a. Not available.

<sup>1</sup> Data not available for railroads and certain other transportation segments.

Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

## No. 302. URBAN AND RURAL WORKERS, BY PLACE OF WORK AND TRANSPORTATION TO WORK: 1960

[In thousands, except percent. Data, based on a 25-percent sample of the population (including Alaska, Hawaii, and the Armed Forces), relate to the week preceding the 1960 Census enumeration]

ITEM	NUMBER				PERCENT			
	United States	Urban	Rural nonfarm	Rural farm	United States	Urban	Rural nonfarm	Rural farm
All workers	64,656	47,166	12,945	4,545	100.0	100.0	100.0	100.0
<b>PLACE OF WORK</b>								
County of residence	52,812	38,543	10,303	3,966	81.7	81.7	79.6	87.3
Outside county of residence	8,986	6,404	2,164	418	13.9	13.6	16.7	9.2
Not reported	2,858	2,219	478	161	4.4	4.7	3.7	3.5
<b>TRANSPORTATION TO WORK</b>								
Private automobile or car pool	41,368	30,296	9,300	1,682	64.0	64.2	72.5	37.0
Railroad, subway, or elevated	2,484	2,437	45	3	3.8	5.2	0.3	0.1
Bus or streetcar	5,323	5,143	159	21	8.2	10.9	1.2	0.5
Walked	6,416	4,718	1,436	263	9.9	10.0	11.1	5.8
Other means	1,620	1,029	471	119	2.5	2.2	3.6	2.6
Worked at home	4,663	1,357	992	2,314	7.2	2.9	7.7	50.9
Not reported	2,782	2,186	452	144	4.3	4.6	3.5	3.2

Source: Department of Commerce, Bureau of the Census; U.S. *Census of Population: 1960*, Vol. I.

## No. 303. EMPLOYED PERSONS, BY SEX AND MAJOR OCCUPATION GROUP: 1950 TO 1963

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Annual averages, except as indicated. Following March 1962, figures not strictly comparable with previous periods because of introduction of 1960 Census data into estimating procedure. See also *Historical Statistics, Colonial Times to 1957*, series D 72-572, for related but not comparable data]

MAJOR OCCUPATION GROUP AND SEX	1950 <sup>1</sup>	1955 <sup>1</sup>	1960	1962		1963, March
				Average	March	
Total.....	(2)	(2)	66,681	67,346	66,316	67,148
Professional, technical, and kindred workers.....	4,490	5,792	7,475	8,040	8,218	8,489
Farmers and farm managers.....	4,393	3,739	2,780	2,595	2,709	2,381
Managers, officials, and proprietors, except farm.....	6,429	6,450	7,067	7,408	7,562	7,300
Clerical and kindred workers.....	7,632	8,367	9,783	10,107	10,094	10,220
Sales workers.....	3,822	3,976	4,401	4,346	4,277	4,248
Craftsmen, foremen, and kindred workers.....	7,670	8,328	8,560	8,678	8,206	8,460
Operatives and kindred workers.....	12,146	12,762	11,866	12,041	11,627	12,184
Private household workers.....	1,883	1,946	2,216	2,341	2,453	2,360
Service workers, except private household.....	4,652	5,160	6,133	6,461	6,224	6,726
Farm laborers and foremen.....	3,015	2,798	2,615	2,271	1,788	1,647
Laborers, except farm and mine.....	3,520	3,681	3,665	3,559	3,156	3,133
Male.....	(2)	(2)	44,485	44,892	43,697	43,962
Professional, technical, and kindred workers.....	2,696	3,608	4,768	5,175	5,106	5,363
Farmers and farm managers.....	4,154	3,591	2,670	2,463	2,571	2,261
Managers, officials, and proprietors, except farm.....	5,430	5,454	5,967	6,276	6,405	6,231
Clerical and kindred workers.....	3,035	2,792	3,154	3,144	3,120	3,046
Sales workers.....	2,379	2,451	2,707	2,646	2,634	2,611
Craftsmen, foremen, and kindred workers.....	7,482	8,114	8,338	8,455	7,967	8,218
Operatives and kindred workers.....	8,810	9,235	8,652	8,664	8,449	8,768
Private household workers.....	125	42	45	60	61	66
Service workers, except private household.....	2,560	2,615	2,873	2,999	2,913	3,154
Farm laborers and foremen.....	2,042	1,714	1,728	1,540	1,355	1,213
Laborers, except farm and mine.....	3,435	3,576	3,583	3,469	3,055	3,031
Female.....	(2)	(2)	22,196	22,954	22,619	23,186
Professional, technical, and kindred workers.....	1,794	2,183	2,706	2,865	3,053	3,117
Farmers and farm managers.....	239	148	111	132	139	120
Managers, officials, and proprietors, except farm.....	990	997	1,099	1,132	1,157	1,078
Clerical and kindred workers.....	4,597	5,575	6,629	6,963	6,973	7,173
Sales workers.....	1,443	1,525	1,695	1,690	1,644	1,637
Craftsmen, foremen, and kindred workers.....	188	215	222	223	237	242
Operatives and kindred workers.....	3,336	3,527	3,333	3,377	3,181	3,416
Private household workers.....	1,758	1,904	2,171	2,281	2,392	2,295
Service workers, except private household.....	2,092	2,545	3,260	3,462	3,310	3,572
Farm laborers and foremen.....	973	1,085	887	731	432	434
Laborers, except farm and mine.....	84	105	82	90	102	102

<sup>1</sup> Based on averages of the first month in each quarter.

<sup>2</sup> Totals have not been adjusted to reflect change in definition of employment and unemployment adopted in January 1957. For adjusted totals, see table 286.

Source: 1950-1955, Department of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

## No. 304. EMPLOYED PERSONS—PERCENT DISTRIBUTION, BY COLOR AND MAJOR OCCUPATION GROUP: 1950 TO 1963

[Beginning 1960, includes Alaska and Hawaii. See headnote, table 286. 1950-1955, annual averages based on data for January, April, July, and October; occupation data not tabulated in other months. Thereafter, annual averages based on 12-month data]

MAJOR OCCUPATION GROUP	WHITE					NONWHITE				
	1950	1955	1960	1962	April 1963	1950	1955	1960	1962	April 1963
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Professional, technical, and kindred workers.....	8.0	9.8	12.0	12.6	12.9	3.0	3.5	4.7	5.3	6.0
Farmers and farm managers.....	7.3	6.0	4.3	4.0	3.7	7.5	5.0	3.1	2.7	2.5
Managers, officials, and proprietors, except farm.....	11.6	11.1	11.6	11.9	11.6	2.5	2.3	2.5	2.6	3.0
Clerical and kindred workers.....	13.8	14.2	15.6	15.8	15.9	3.5	4.9	7.2	7.2	6.8
Sales workers.....	6.9	6.9	7.2	7.0	7.0	1.2	1.3	1.6	1.6	2.0
Craftsmen, foremen, and kindred workers.....	13.7	14.1	13.7	13.6	13.7	4.8	5.2	5.9	6.0	5.9
Operatives and kindred workers.....	20.6	20.2	17.7	17.5	17.8	18.6	20.0	20.1	19.9	20.6
Private household workers.....	1.6	1.8	2.0	2.1	2.0	17.7	14.8	14.3	14.7	14.7
Service workers, except private household.....	6.9	7.2	8.2	8.5	8.9	16.1	16.8	17.5	18.1	19.5
Farm laborers and foremen.....	4.4	3.0	3.3	2.8	2.5	10.9	9.5	9.3	8.3	5.6
Laborers, except farm and mine.....	5.0	4.7	4.5	4.3	4.0	14.1	15.8	13.8	13.6	13.5

Source: 1950-1955, Department of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

## Labor Force, Employment, and Earnings

## No. 305. DETAILED OCCUPATION OF EMPLOYED PERSONS, BY SEX: 1960

**Persons 14 years old and over.** Includes Alaska and Hawaii. "N.e.c." means not elsewhere classified. For definition of "Employed," see text, pp. 215 and 216. See also *Historical Statistics, Colonial Times to 1957*, series D 123-572, for related but not comparable data.

OCCUPATION	Male	Female	OCCUPATION	Male	Female
Total employed-----	43,466,955	21,172,301	Professional, technical, and kindred workers—Con.		
Professional, technical, and kindred workers-----	4,479,358	2,753,052	Teachers:		
Accountants and auditors-----	392,257	70,045	Elementary schools-----	143,163	860,413
Actors-----	6,007	3,193	Secondary schools-----	274,562	243,452
Airplane pilots and navigators-----	26,811	165	Teachers (n.e.c.)-----	57,663	92,661
Architects-----	29,496	765	Technicians:		
Artists and art teachers-----	65,859	35,993	Medical and dental-----	51,801	86,271
Athletes-----	3,888	336	Electrical and electronic-----	87,227	4,236
Authors-----	20,734	7,072	Other engineering and physical sciences-----	160,100	23,419
Chiropractors-----	12,917	1,403	Technicians (n.e.c.)-----	50,197	15,526
Clergymen-----	196,304	4,695	Therapists and healers (n.e.c.)-----	16,902	19,752
College presidents, professors, and instructors (n.e.c.)-----	138,889	38,850	Veterinarians-----	14,513	306
Dancers and dancing teachers-----	4,582	15,850	Farmers and farm managers-----	2,387,584	118,100
Dentists-----	81,075	1,928	Farmers (owners and tenants)-----	2,363,813	117,380
Designers-----	53,792	12,064	Farm managers-----	23,771	711
Dietitians and nutritionists-----	1,882	24,237	Managers, officials and proprietors, exc. farm-----	4,629,842	779,701
Draftsmen-----	201,640	11,729	Buyers and department heads, store-----	180,170	53,804
Editors and reporters-----	63,279	37,438	Buyers and shippers, farm products-----	17,006	347
Engineers, technical-----	853,738	7,211	Conductors, railroad-----	43,686	124
Aeronautical-----	50,895	808	Credit men-----	35,003	11,654
Chemical-----	40,637	339	Floormen and floor managers, store-----	5,457	5,393
Civil-----	154,293	880	Inspectors, public administration-----	72,584	2,958
Electrical-----	182,413	1,474	Federal public administration and postal service-----	39,263	1,443
Industrial-----	95,389	2,069	State public administration-----	12,810	585
Mechanical-----	157,660	528	Local public administration-----	20,511	930
Metallurgical, and metallurgists-----	18,280	179	Managers and superintendents, building-----	33,204	10,683
Mining-----	12,042	42	Officers, pilots, pursers, and engineers, ship-----	33,801	167
Sales-----	56,664	172	Officials and administrators (n.e.c.), publ.admin.-----	160,667	37,905
Engineers (n.e.c.)-----	85,465	670	Federal public administration and postal service-----	59,840	7,864
Entertainers (n.e.c.)-----	8,559	2,423	State public administration-----	31,650	4,725
Farm and home management advisors-----	7,105	6,312	Local public administration-----	69,177	25,376
Foresters and conservationists-----	31,337	778	Managers, officials, and proprietors (n.e.c.)—salaried-----	2,221,418	332,896
Funeral directors and embalmers-----	34,724	2,257	Construction-----	137,652	4,890
Lawyers and judges-----	204,974	7,434	Manufacturing-----	603,101	42,933
Librarians-----	12,045	71,836	Transportation-----	112,586	5,268
Musicians and music teachers-----	82,246	109,638	Communications, and utilities and sanitary services-----	91,204	11,149
Natural scientists <sup>1</sup> -----	134,502	14,738	Wholesale trade-----	186,022	14,032
Agricultural scientists-----	7,488	407	Retail trade <sup>1</sup> -----	512,801	93,043
Biological scientists-----	10,217	3,720	Food and dairy products stores-----	95,673	9,165
Chemists-----	76,210	7,210	Eating and drinking places-----	50,016	21,868
Geologists and geophysicists-----	18,120	431	General merchandise and ltd. price variety stores-----	65,503	21,601
Mathematicians-----	5,535	1,902	Apparel and accessories stores-----	33,462	16,556
Physicists-----	13,359	582	Furniture, housefurnishings, and equip. stores-----	27,784	3,301
Nurses, professional-----	14,495	567,884	Motor vehicles and accessories retailing-----	81,900	3,811
Nurses, student professional-----	800	56,540	Gasoline service stations-----	42,706	497
Optometrists-----	15,370	674	Hardware, farm equipment, and building material, retail-----	51,515	2,275
Osteopaths-----	3,466	474			
Personnel and labor relations workers-----	67,655	30,215			
Pharmacists-----	85,026	7,129			
Photographers-----	45,393	6,174			
Physicians and surgeons-----	213,413	15,513			
Public relations men and publicity writers-----	23,358	7,005			
Radio operators-----	25,484	2,957			
Recreation and group workers-----	20,858	15,497			
Religious workers-----	21,239	35,099			
Social and welfare workers, except group-----	36,029	60,667			
Social scientists <sup>1</sup> -----	42,403	14,177			
Economists-----	16,352	2,730			
Psychologists-----	8,208	3,742			
Statisticians and actuaries-----	15,188	6,699			
Sports instructors and officials-----	51,957	24,931			
Surveyors-----	41,870	1,695			

<sup>1</sup> Includes occupations not shown separately.

## Detailed Occupation

233

## No. 305. DETAILED OCCUPATION OF EMPLOYED PERSONS, BY SEX: 1960—Con.

OCCUPATION	Male	Female	OCCUPATION	Male	Female
Managers—salaried—Con.			Sales workers.....	2,977,872	1,661,113
Banking and other finance.....	177,452	25,738	Advertising agents, salesmen.....	29,219	4,682
Insurance and real estate.....	116,034	24,028	Auctioneers.....	3,967	85
Business services.....	50,921	13,638	Demonstrators.....	1,841	22,384
Automobile repair services and garages.....	20,121	863	Hucksters and peddlers.....	22,719	31,865
Misc. repair services.....	6,744	474	Insurance agents, brokers, and underwriters.....		
Personal services.....	50,404	26,229	Newsmen.....	329,270	35,287
Managers, officials, and proprietors (n.e.c.)—self-employed <sup>1</sup>	1,681,335	286,857	Newsboys.....	182,097	8,311
Construction.....	222,360	2,896	Real estate agents and brokers.....	146,996	46,108
Manufacturing.....	158,619	11,753	Stock and bond salesmen.....	26,777	1,840
Transportation.....	36,972	2,340	Salesmen and sales clerks (n.e.c.) <sup>1</sup> .....	2,234,986	1,510,551
Communications, and utilities and sanitary services.....	4,642	396	Manufacturing.....	416,404	48,366
Wholesale trade.....	127,636	6,792	Wholesale trade.....	475,103	20,302
Retail trade <sup>1</sup> .....	817,919	181,944	Retail trade.....	1,210,046	1,397,364
Food and dairy products stores.....	175,761	42,360	Craftsmen, foremen, and kindred workers <sup>1</sup> .....	8,488,777	252,515
Eating and drinking places.....	142,907	65,337	Bakers.....	90,782	17,585
General merchandise and ltd. price variety stores.....	35,074	10,662	Blacksmiths.....	19,929	101
Apparel and accessories stores.....	37,472	19,087	Boilermakers.....	23,713	41
Furniture, housefurnishings, and equip. stores.....	44,704	4,505	Bookbinders.....	11,988	15,027
Motor vehicles and accessories retailing.....	54,627	1,501	Brickmasons, stonemasons, and tile setters.....	185,190	710
Gasoline service stations.....	146,492	4,059	Cabinetmakers.....	64,778	891
Hardware, farm equipment, and building material, retail.....	63,656	3,399	Carpenters.....	816,195	2,040
Banking and other finance.....	21,075	1,153	Cement and concrete finishers.....	40,667	100
Insurance and real estate.....	42,484	7,105	Compositors and typesetters.....	164,324	15,228
Business services.....	30,970	5,808	Cranemen, derrickmen, and hoistmen.....	123,335	656
Automobile repair services and garages.....	37,014	1,129	Decorators and window dressers.....	27,373	23,566
Misc. repair services.....	18,965	1,010	Electricians.....	334,732	2,415
Personal services.....	87,246	43,156	Electrotypers and stereotypers.....	9,106	72
Clerical and kindred workers <sup>1</sup> .....	3,015,476	6,291,420	Engravers, exc. photoengravers.....	9,321	1,048
Agents (n.e.c.).....	131,247	29,015	Excavating, grading, and road machinery operators.....	198,114	688
Attendants and assistants, library.....	7,885	24,922	Foremen (n.e.c.) <sup>1</sup> .....	1,096,658	78,454
Attendants, physician's and dentist's office.....	1,711	68,944	Construction.....	96,271	206
Baggagemen, transportation.....	5,280	187	Manufacturing.....	686,615	57,396
Bank tellers.....	39,725	89,465	Metal industries.....	127,145	1,923
Bookkeepers.....	149,177	764,054	Machinery, including electrical.....	125,600	7,024
Cashiers.....	100,996	367,954	Transportation equipment.....	80,293	1,064
Collectors, bill and account.....	24,088	6,485	Other durable goods.....	94,704	5,777
Dispatchers and starters, vehicle.....	50,795	6,287	Textiles, textile products, and apparel.....	51,116	23,249
Express messengers and railway mail clerks.....	6,365	233	Other nondurable goods (incl. not spec. mfg.).....	207,757	18,350
File clerks.....	19,044	112,323	Railroads and railway express service.....	35,819	56
Insurance adjusters, examiners, and investigators.....	48,563	6,614	Transportation exc. railroad.....	26,788	311
Mail carriers.....	192,501	4,227	Communications, and utilities and sanitary services.....	50,530	1,049
Messengers and office boys.....	48,257	10,576	Forgemen and hammermen.....	11,298	400
Office machine operators.....	70,979	227,849	Furriers.....	2,786	497
Payroll and timekeeping clerks.....	43,193	63,681	Glaziers.....	14,760	227
Postal clerks.....	171,175	38,210	Heat treaters, annealers, and temperers.....	19,275	293
Receptionists.....	2,979	131,142	Inspectors, scalers, and graders, log and lumber.....	18,863	798
Secretaries.....	40,606	1,423,352	Inspectors (n.e.c.) <sup>1</sup> .....	92,523	5,670
Shipping and receiving clerks.....	256,866	23,348	Construction.....	14,754	100
Stenographers.....	11,625	253,554	Railroads and railway express service.....	29,285	76
Stock clerks and storekeepers.....	277,151	48,718	Transportation, exc. railroad, communications, and other public utilities.....	14,207	251
Telegraph messengers.....	3,853	221	Jewelers, watchmakers, goldsmiths, and silversmiths.....	34,620	2,142
Telegraph operators.....	15,538	4,537	Job setters, metal.....	39,396	322
Telephone operators.....	15,119	341,797	Linemen and servicemen, telegraph, telephone, and power.....	269,131	5,490
Ticket, station, and express agents.....	56,197	15,861	Locomotive engineers.....	56,545	85
Typists.....	25,468	496,735	Locomotive firemen.....	36,983	104

<sup>1</sup> Includes occupations not shown separately.

No. 305. DETAILED OCCUPATION OF EMPLOYED PERSONS, BY SEX: 1960—Con.

OCCUPATION	Male	Female	OCCUPATION	Male	Female
Craftsmen, foremen, and kindred workers—Con.			Operatives and kindred workers—Con.		
Loom fixers	23,681	208	Fruit, nut and vegetable graders and packers, exc. factory	6,991	15,000
Machinists	492,228	6,480	Furnacemen, smeltermen, and pourers	52,447	896
Mechanics and repairmen <sup>1</sup>	2,197,193	26,165	Graders and sorters, mfg.	11,876	22,570
Air conditioning, heating, and refrigeration	61,872	125	Heaters, metal	7,485	172
Airplane	112,513	1,668	Knitters, loopers, and topplers, textile	14,420	20,610
Automobile	679,833	2,250	Laundry and dry cleaning operatives	109,477	277,390
Office machine	28,983	279	Meat cutters, exc., slaughter and packing house	175,302	5,453
Radio and television	101,141	1,688	Milliners	350	3,467
Railroad and car shop	38,909	111	Mine operatives and laborers (n.e.c.)	288,982	1,166
Millers, grain, flour, feed, etc.	8,995	64	Coal mining	115,997	266
Millwrights	64,288	80	Crude petroleum and natural gas extraction	91,142	326
Molders, metal	47,477	1,462	Mining and quarrying, exc. fuel	81,843	574
Motion picture projectionists	17,169	390	Motormen, mine, factory, logging camp, etc.	12,681	66
Opticians, and lens grinders and polishers	17,304	3,045	Motormen, street, subway, and elevated railway	7,340	96
Painters, construction and maintenance	362,977	7,683	Oilers and greasers, exc. auto.	50,841	523
Paperhangers	8,726	1,455	Packers and wrappers (n.e.c.)	175,205	262,036
Pattern and model makers, except paper	38,292	647	Painters, exc. construction and maintenance	124,937	13,116
Photoengravers and lithographers	23,704	1,311	Photographic process workers	23,631	17,631
Piano and organ tuners and repairmen	5,858	153	Power station operators	25,332	1,375
Plasterers	46,011	168	Sailors and deck hands	32,515	233
Plumbers and pipe fitters	303,541	918	Sawyers	84,560	2,135
Pressmen and plate printers, printing	70,783	3,131	Sewers and stitchers, mfg.	34,287	534,258
Rollers and roll hands, metal	28,853	802	Spinners, textile	10,248	38,528
Roofers and slateurs	47,873	107	Stationary firemen	87,379	508
Shoemakers and repairers, except factory	34,866	1,322	Switchmen, railroad	57,554	234
Stationary engineers	268,180	1,563	Taxicab drivers and chauffeurs	158,171	4,328
Stone cutters and stone carvers	5,970	132	Truck and tractor drivers	1,549,113	7,724
Structural metal workers	57,987	236	Weavers, textile	36,741	25,050
Tailors	32,079	8,942	Welders and flame-cutters	344,385	16,245
Tinsmiths, coppersmiths, and sheet metal workers	133,889	1,426	Operatives and kindred workers (n.e.c.)	3,285,868	1,324,742
Toolmakers, and die makers and setters	181,217	1,128	Manufacturing <sup>1</sup>	2,756,128	1,221,758
Upholsterers	53,702	5,668	Durable goods <sup>1</sup>	1,503,021	387,953
Operatives and kindred workers	8,641,652	3,255,949	Sawmills, planing mills, and misc. wood products	122,064	10,319
Apprentices <sup>1</sup>	80,316	2,221	Sawmills, planing mills, and mill work	93,582	3,292
Auto mechanics	1,751	20	Misc. wood products	28,482	7,027
Bricklayers and masons	2,790	12	Furniture and fixtures	84,795	14,698
Carpenters	5,137	22	Stone, clay, and glass products <sup>1</sup>	134,412	23,508
Electricians	9,040	68	Glass and glass products	43,093	7,565
Machinists and toolmakers	14,958	225	Cement, and concrete, gypsum, and plaster products	32,324	402
Mechanics, exc. auto	3,490	68	Structural clay products	16,907	2,147
Plumbers and pipe fitters	7,708	34	Pottery and related products	12,170	7,918
Building trades (n.e.c.)	2,198	52	Metal industries	436,669	61,830
Metalworking trades (n.e.c.)	5,311	104	Primary metal industries	221,924	11,403
Printing trades	11,077	266	Blast furnaces, steel works, and rolling and finishing mills	93,530	1,461
Other specified trades	7,086	725	Other primary iron and steel industries	58,249	2,023
Asbestos and insulation workers	17,457	629	Primary nonferrous industries	70,145	7,919
Assemblers	343,578	270,769	Fab'rd metal ind. (incl. not spec. metal) <sup>1</sup>	214,745	50,427
Attendants, auto service and parking	344,695	7,131	Cutlery, hand tools and other hardware	19,586	11,141
Blasters and powdermen	6,298	72	Fab'rd structural metal products	55,036	3,574
Boatmen, canalmen, and lock keepers	6,681	98	Misc. fab'rd metal products	138,148	35,421
Brakemen, railroad	61,548	122			
Bus drivers	163,465	18,320			
Chainmen, rodmen, and axemen, surveying	9,245	394			
Checkers, examiners, and inspectors, mfg.	265,026	215,066			
Conductors, bus and street railway	4,148	89			
Deliverymen and routemen	408,332	10,819			
Dressmakers and seamstresses, exc. factory	3,965	115,252			
Dyers	17,681	730			
Flers, grinders, and polishers, metal	140,622	7,802			

<sup>1</sup> Includes occupations not shown separately.

## No. 305. DETAILED OCCUPATION OF EMPLOYED PERSONS, BY SEX: 1960—Con.

OCCUPATION	Male	Female	OCCUPATION	Male	Female
Operatives and kindred workers (n.e.c.)—Con.			Operatives and kindred workers (n.e.c.)—Con.		
Manufacturing—Con.			Manufacturing—Con.		
Durable goods—Con.			Nondurable goods—Con.		
Machinery, exc. electrical	231,731	30,770	Leather and leather products	95,606	85,268
Farm machinery and equipment	20,129	894	Leather: Tanned, cured, and finished	14,459	2,146
Office, computing, and accounting machines	16,365	8,149	Footwear, exc. rubber	67,750	69,027
Misc. machinery	195,237	21,736	Leather products exc. footwear	13,397	14,095
Electrical machinery, equipment, and supplies	151,670	138,001	Nonmanufacturing industries (incl. not reported)	529,740	102,984
Transportation equipment	234,925	27,573	Construction	88,587	943
Motor vehicles and motor vehicle equip.	141,504	16,430	Railroads and railway express service	52,051	432
Aircraft and parts	60,944	9,425	Transportation, exc. railroad	31,167	2,190
Ship and boat building and repairing	17,471	826	Communications, and utilities and sanitary serv.	47,378	1,272
Railroad and misc. transportation equip.	15,006	1,192	Wholesale and retail trade	148,534	53,609
Profess'l and photographic equip., watches, Profess'l equip. and supplies	38,435	23,126	Business and repair serv.	59,100	7,991
Photographic equip. and supplies	26,097	15,876	Personal services	6,872	7,064
Watches, clocks, clockwork-oper. devices	8,517	2,340	Public administration	39,398	4,270
Nondurable goods	1,247,596	830,097	Private household workers	61,063	1,664,763
Food and kindred products <sup>1</sup>	302,768	110,293	Baby sitters, private household	8,046	310,735
Meat products	92,386	31,235	Housekeepers, private household	2,101	143,290
Dairy products	51,234	3,749	Living in	600	54,831
Canning and pres. fruits, veg., and sea-foods	28,880	39,585	Living out	1,501	88,459
Grain-mill products	26,121	1,913	Laundresses, private household	699	39,055
Bakery products	26,237	14,814	Living in	210	210
Confectionery and related products	12,002	11,503	Living out	699	38,845
Beverage industries	38,864	4,933	Private household workers (n.e.c.)	50,217	1,162,683
Tobacco manufactures	14,157	21,267	Living in	6,613	96,066
Textile mill products <sup>1</sup>	183,423	163,795	Living out	43,604	1,065,987
Knitting mills	12,769	44,441	Service workers, exc. private household	2,598,673	2,846,289
Dyeing and fin. text., exc. wool and knit goods	18,959	4,178	Attendants, hospital and other institutions	103,532	288,208
Floor covering, exc. hard surface	6,503	4,666	Attendants, professional and personal services (n.e.c.)	20,783	49,463
Yarn, thread, and fabric mills	132,663	103,390	Attendants, recreation and amusement	48,291	7,132
Apparel and other fabricated textile prod. <sup>1</sup>	106,788	293,473	Barbers	173,473	5,495
Apparel and accessories	91,858	270,619	Bartenders	182,553	19,348
Paper and allied products <sup>1</sup>	169,364	48,377	Boarding and lodging housekeepers	3,302	25,858
Pulp, paper, and paperboard mills	97,200	0,421	Boothjacks	9,035	382
Paperboard containers and boxes	44,562	20,650	Chambermaids and maids, exc. private household	2,762	162,433
Printing, publishing, and allied industries	57,502	34,458	Charwomen and cleaners	56,963	122,728
Newspaper publishing and printing	8,647	2,185	Cooks, exc. private household	200,290	361,772
Printing, publishing, and allied industries, exc. newspapers	48,855	32,273	Counter and fountain workers	44,967	112,547
Chemicals and allied products <sup>1</sup>	159,677	26,248	Elevator operators	48,882	23,000
Synthetic fibers	14,924	7,201	Hairdressers and cosmetologists	33,970	267,050
Drugs and medicines	10,711	6,109	Housekeepers and stewards, exc. private household	28,307	117,603
Paints, varnishes, and related prod.	15,121	1,308	Janitors and sextons	516,368	77,339
Petroleum and coal products <sup>1</sup>	48,097	729	Kitchen workers (n.e.c.), exc. private household	124,227	179,796
Petroleum refining	43,025	436	Midwives	213	709
Rubber and misc. plastic products <sup>1</sup>	110,214	40,189	Porters	139,547	2,647
Rubber products	80,555	22,595	Practical nurses	8,850	197,115
Protective service workers					
Firemen, fire protection	662,137	27,425	Guards, watchmen, and doorkeepers	237,174	7,312
Marshals and constables	137,555	329	Marshals and constables	5,684	225
Police and detectives	245,404	6,790	Police officers and detectives	280,425	5,463
Government	14,970	1,327	Private	22,736	1,194
Sheriffs and bailiffs	13,584	11,575	Watchmen (crossing) and bridge tenders	18,584	11,575
Ushers, recreation and amusement	9,865	4,400	Waiters	110,779	714,827

<sup>1</sup> Includes occupations not shown separately.

## No. 305. DETAILED OCCUPATION OF EMPLOYED PERSONS, BY SEX: 1960—Con.

OCCUPATION	Male	Female	OCCUPATION	Male	Female
Farm laborers and foremen	1,201,922	242,885	Laborers, exc. farm and mine—Continued		
Farm foremen	24,444	519	Manufacturing—Continued		
Farm laborers, wage workers	1,016,640	119,160	Durable goods—Con.		
Farm laborers, unpaid family workers	155,736	123,090	Professional and photographic equip., watches	3,221	759
Farm service laborers, self-employed	5,102	116	Nondurable goods	277,133	29,478
Laborers, exc. farm and mine	2,997,785	109,746	Food and kindred prod.	110,566	8,853
Carpenters, helpers, exc. logging and mining	35,973	333	Tobacco manufactures	4,175	1,220
Fishermen and oystermen	35,298	471	Textile mill products	30,960	5,735
Garage laborers, and car washers and greasers	80,249	2,497	Apparel and other fabricated textile products	5,800	4,031
Gardeners, exc. farm, and groundkeepers	193,404	3,042	Paper and allied prod.	34,454	2,287
Longshoremen and stevedores	55,479	301	Printing, publishing, and allied industries	10,267	1,501
Lumbermen, raftsmen, and wood choppers	116,629	922	Chemicals and allied prod.	43,361	1,500
Teamsters	19,584	73	Petroleum and coal prod.	15,717	176
Truck drivers, helpers	29,406	269	Rubber and misc. plastic prod.	14,486	2,055
Warehousemen (n.e.c.)	111,779	1,559	Leather and leather prod.	7,348	2,140
Laborers (n.e.c.)	2,319,984	100,279	Nonmanufacturing industries (incl. not reported)	1,511,363	46,483
Manufacturing <sup>1</sup>	808,621	53,706	Construction	608,541	3,924
Durable goods <sup>1</sup>	529,658	24,089	Railroads and railway express service	118,229	2,823
Sawmills, planing mills, and misc. wood prod.	96,642	2,647	Transportation, exc. railroad	80,319	1,100
Furniture and fixtures	15,097	1,311	Communications, and utilities and sanitary service	115,155	1,132
Stone, clay, glass prod.	71,832	2,502	Wholesale and retail trade	318,524	16,407
Metal industries	217,075	6,621	Business and repair services	20,067	970
Machinery, exc. electrical	39,505	1,401	Personal services	62,354	4,851
Electrical machinery, equipment and supplies	24,516	5,290	Public administration	69,030	1,907
Transportation equipment	53,156	1,734	Occupation not reported	1,986,951	1,196,768

<sup>1</sup> Includes occupations not shown separately.Source: Department of Commerce, Bureau of the Census; *U.S. Census of Population: 1960*, Vol. I.

## No. 306. CLASS OF WORKER OF EMPLOYED PERSONS, BY SEX: 1950 TO 1963

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Annual averages, except as indicated. See headnote, table 303. See also *Historical Statistics, Colonial Times to 1957*, series D 72-572, for related but not comparable data]

CLASS OF WORKER AND SEX	1950 <sup>1</sup>	1955 <sup>1</sup>	1960	1962		1963, March
				Average	March	
<b>EMPLOYED IN AGRICULTURE</b>						
Male	6,280	5,487	4,678	4,266	4,144	3,711
Wage and salary workers	1,504	1,415	1,558	1,305	1,229	1,202
Self-employed workers	4,115	3,582	2,687	2,483	2,554	2,252
Unpaid family workers	661	489	433	388	360	257
Female	1,227	1,243	1,045	924	638	625
Wage and salary workers	230	285	308	271	140	157
Self-employed workers	231	149	116	136	139	121
Unpaid family workers	766	810	621	517	359	348
<b>EMPLOYED IN NONAGRICULTURAL INDUSTRIES</b>						
Male	36,007	37,803	39,807	40,626	39,553	40,251
Wage and salary workers	31,049	32,934	34,689	35,618	34,524	35,381
In private households	238	254	288	337	225	224
Government workers	3,831	4,234	4,788	5,281	5,238	5,446
Other wage and salary workers	26,930	28,446	29,613	30,030	29,061	29,711
Self-employed workers	4,885	4,809	5,027	4,887	4,937	4,703
Unpaid family workers	74	60	91	90	92	76
Female	16,443	18,661	21,151	22,031	21,980	22,560
Wage and salary workers	14,929	17,119	19,287	20,113	20,003	20,636
In private households	1,757	1,962	2,201	2,289	2,412	2,313
Government workers	1,986	2,604	3,155	3,422	3,591	3,808
Other wage and salary workers	11,185	12,554	13,931	14,402	14,000	14,515
Self-employed workers	1,184	1,077	1,340	1,385	1,422	1,418
Unpaid family workers	330	465	524	532	555	506

<sup>1</sup> Totals have not been adjusted to reflect change in definition of employment and unemployment adopted in January 1957. For adjusted totals, see table 286.

Source: 1950-1955, Department of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

**NO. 307. INDEXES OF OUTPUT, PAYMENTS, AND PRICES IN THE PRIVATE ECONOMY AND THE NONFARM SECTOR: 1947 TO 1962**

[1957-59=100. Beginning 1960, includes Alaska and Hawaii. In addition to wages and salaries of employees, labor payments include such supplements as employer contributions to social security, private insurance and pension funds, compensation for injuries, and other minor items of labor income. Nonlabor payments are derived as the difference between labor payments and gross national product in current dollars]

ITEM	1947	1950	1955	1959	1960	1961	1962 (prel.)
Output per man-hour:							
Total private economy:							
Output per man-hour—all persons.....	70.9	80.9	93.8	103.3	105.3	108.9	113.4
Output per man-hour—employees.....	75.6	84.6	95.0	102.9	104.1	107.4	111.0
Private nonfarm sector:							
Output per man-hour—all persons.....	76.3	85.1	95.3	103.1	104.8	107.9	112.1
Output per man-hour—employees.....	75.8	84.7	94.9	103.0	104.5	107.7	111.3
Compensation per man-hour:							
Total private economy:							
Compensation per employee man-hour.....	55.8	65.8	85.5	104.3	108.1	112.0	116.4
Real compensation per employee man-hour.....	71.7	78.5	91.6	102.8	104.8	107.5	110.4
Private nonfarm sector:							
Compensation per employee man-hour.....	55.9	66.1	85.7	104.2	108.4	112.2	116.5
Real compensation per employee man-hour.....	71.9	78.9	91.9	102.7	105.1	107.7	110.5
Prices and costs:							
Private nonfarm sector:							
Payments per unit of output (implicit prices).....	73.7	80.6	92.2	101.6	103.1	104.0	105.2
Employee compensation per unit of output.....	73.7	78.0	90.4	101.2	103.7	104.1	104.6
Nonlabor payments per unit of output.....	73.7	83.9	94.5	102.2	102.1	103.8	106.0
Underlying data:							
Total private economy:							
Product in constant dollars.....	68.4	77.3	95.0	104.1	106.9	108.6	114.4
Product in current dollars.....	52.4	63.6	87.6	105.7	109.9	112.8	120.1
Man-hours of all persons.....	96.5	95.6	101.3	100.8	101.5	99.7	100.9
Man-hours of employees.....	90.5	91.4	100.0	101.2	102.7	101.1	103.1
Compensation of employees in current dollars.....	50.5	60.1	85.5	105.6	111.0	113.2	120.0
Wages and salaries of employees in current dollars.....	51.9	61.2	86.3	105.2	110.1	112.2	118.5
Private nonfarm sector:							
Product in constant dollars.....	67.7	76.4	94.5	104.3	107.0	108.8	114.9
Product in current dollars.....	49.9	61.6	87.1	106.0	110.3	113.1	120.0
Man-hours of all persons.....	88.7	89.8	99.2	101.2	102.1	100.8	102.5
Man-hours of employees.....	89.3	90.2	99.6	101.3	102.4	101.0	103.2
Compensation of employees in current dollars.....	49.9	59.6	85.4	105.6	111.0	113.3	120.2
Wages and salaries of employees in current dollars.....	51.2	60.8	86.2	105.2	110.1	112.2	118.5
Nonlabor payments in current dollars.....	49.9	64.1	89.3	106.6	109.3	112.9	121.8
Consumer price index.....	77.8	83.8	93.3	101.5	103.1	104.2	105.4

Source: Department of Labor, Bureau of Labor Statistics.

**NO. 308. INDEXES OF REAL PRODUCT PER MAN-HOUR FOR THE PRIVATE ECONOMY: 1947 TO 1962**

[1957-59=100. Beginning 1960, includes Alaska and Hawaii. Covers wage and salary workers, self-employed, and unpaid family workers. Man-hour estimates based primarily on data from establishment reports or from labor force reports as specified. See also *Historical Statistics, Colonial Times to 1957*, series W 9-11]

YEAR	BASED ON ESTABLISHMENT REPORTS					BASED ON LABOR FORCE REPORTS		
	Total	Agriculture	Nonagricultural industries			Total	Agriculture	Nonagricultural industries
			Total	Manufacturing	Non-manufacturing			
1947-----	70.9	50.2	76.3	74.8	76.8	68.5	50.2	73.8
1950-----	80.9	64.7	85.1	83.7	85.6	77.5	64.5	81.4
1951-----	82.9	64.0	86.5	85.2	86.8	81.1	63.6	84.7
1952-----	84.7	69.9	87.6	86.4	87.8	83.7	69.4	86.7
1953-----	88.2	77.8	90.0	90.6	89.0	87.5	77.3	89.5
1954-----	89.7	83.4	91.4	89.8	92.0	89.7	83.0	91.5
1955-----	93.8	86.4	95.3	96.0	94.6	94.1	85.9	95.8
1956-----	93.9	88.3	94.9	97.1	93.4	94.4	87.8	95.7
1957-----	97.2	94.2	97.5	97.2	97.6	97.5	94.2	98.0
1958-----	99.6	103.0	99.4	98.9	99.7	99.1	103.1	98.8
1959-----	103.3	102.8	103.1	103.7	102.7	103.4	102.7	103.2
1960-----	105.3	109.3	104.8	106.1	104.2	104.9	109.3	104.2
1961-----	108.9	117.9	107.9	110.7	106.8	107.4	118.4	106.0
1962 (prel.)	113.4	121.8	112.1	114.9	110.6	111.2	122.1	109.5

Source: Department of Labor, Bureau of Labor Statistics.

## Labor Force, Employment, and Earnings

## No. 309. INDEXES OF OUTPUT PER MAN-HOUR—PRODUCTION WORKERS, SELECTED INDUSTRIES: 1940 TO 1961

[1957-59=100. Beginning 1959, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series W 13-32 and W 44]

INDUSTRY	1940	1945	1950	1955	1957	1958	1959	1960	1961
<b>NONMANUFACTURING</b>									
Coal mining <sup>1,2</sup>	50.2	51.3	61.4	87.4	92.6	103.0	107.1	116.2	131.3
Bituminous coal <sup>2,3</sup>	49.2	50.7	61.7	87.8	92.9	103.2	106.4	114.3	129.0
Copper (recoverable metal) <sup>2,3</sup>	65.4	74.1	84.2	89.9	94.1	106.2	101.3	104.5	109.5
Iron (usable ore) <sup>2,3</sup>	100.5	96.7	97.1	114.3	106.7	95.3	94.6	106.2	110.0
Railroad transportation (revenue traffic) <sup>4</sup>	50.3	66.8	71.1	88.3	94.4	100.2	106.6	111.1	119.7
<b>MANUFACTURING</b>									
Basic steel <sup>1,5</sup>	62.1	65.2	84.8	98.0	97.5	95.6	107.4	n.a.	n.a.
Blast furnace and basic steel products <sup>2,6</sup>	n.a.	n.a.	n.a.	n.a.	98.7	96.5	105.1	100.2	105.1
Beet-sugar refining <sup>5,7</sup>	68.5	52.3	75.4	n.a.	n.a.	98.1	103.9	106.9	103.4
Canning and preserving group <sup>2</sup>	61.2	63.2	75.7	89.4	98.4	98.2	103.5	106.0	n.a.
Cement <sup>8</sup>	54.7	49.2	70.5	91.6	92.4	99.7	108.3	n.a.	n.a.
Clay construction products <sup>7,9</sup>	n.a.	n.a.	87.3	103.1	99.4	99.8	n.a.	n.a.	n.a.
Confectionery <sup>5,7</sup>	67.3	70.2	71.7	88.0	97.7	99.7	102.6	106.4	105.7
Flour and other grain-mill products <sup>8,7</sup>	79.5	70.6	69.7	86.8	99.2	102.7	98.2	104.0	107.4
Glass containers <sup>6,7</sup>	72.7	86.7	95.1	99.7	99.8	97.3	102.9	100.6	102.7
Hosiery (full-fashioned and seamless) <sup>6,7</sup>	66.9	80.7	81.7	89.1	91.3	106.7	103.0	100.9	n.a.
Malt liquors <sup>7</sup>	56.7	66.0	77.8	87.2	98.1	102.1	105.5	108.3	113.3
Paper and pulp <sup>7,9</sup>	75.6	62.8	78.4	90.4	96.1	98.8	104.9	109.3	n.a.
Petroleum refining <sup>6,7</sup>	57.8	48.6	68.3	87.8	93.2	98.1	109.7	114.1	121.9
Synthetic fibers <sup>6,7</sup>	18.1	27.8	51.9	77.3	93.0	96.2	110.4	114.6	n.a.
Tires and inner tubes	n.a.	n.a.	82.7	86.2	93.8	99.0	107.4	112.1	118.0
Primary smelting and refining of copper, lead, and zinc <sup>7</sup>	69.2	60.9	77.8	96.8	99.3	100.8	100.0	101.2	n.a.
Tobacco products <sup>2,10</sup>	55.5	66.3	81.4	85.4	94.8	100.5	104.8	112.7	118.3
Cigars <sup>11</sup>	48.3	57.0	65.4	75.8	88.7	101.1	111.6	121.4	128.8
Cigarettes, chewing and smoking tobacco, and snuff <sup>2,5</sup>	62.7	75.7	99.2	94.4	99.7	100.0	100.3	106.9	111.4

n.a. Not available.

<sup>1</sup> Includes anthracite and bituminous coal. <sup>2</sup> Production-worker-hours paid.

<sup>3</sup> Adjusted to levels indicated by 1939, 1954, and 1958 Censuses of Mineral Industries.

<sup>4</sup> Class I line-haul railroads; in terms of hours worked plus constructive allowances, hourly basis employees.

<sup>5</sup> Adjusted to levels indicated by 1947, 1954, and 1958 Censuses of Manufactures.

<sup>6</sup> Not comparable to index for basic steel due to changes in Standard Industrial Classification.

<sup>7</sup> Production-worker-hours paid prior to 1947, and hours worked thereafter.

<sup>8</sup> Production-worker-hours worked.

<sup>9</sup> Adjusted to levels indicated by 1947 and 1954 Censuses of Manufactures.

Source: Department of Labor, Bureau of Labor Statistics.

## No. 310. PRODUCTION WORKERS IN MANUFACTURING INDUSTRIES—NUMBER WEEKLY AND HOURLY EARNINGS, AND WEEKLY HOURS: 1940 TO 1963

[Beginning 1959, includes Alaska and Hawaii. Workers include all full- and part-time employees who worked during, or received pay for, any part of pay period ending nearest 15th of month; data adjusted to March 1959 benchmark levels indicated by data from Government social insurance programs. Net spendable average weekly earnings represent average gross earnings less social security and income taxes for which specified worker is liable. Net spendable earnings then divided by BLS consumers price index, adjusted to average 1957-59 base, to obtain net spendable earnings in 1957-59 dollars. Overtime defined as work in excess of either straight-time daywork or workweek and paid for at time and one-half. Computation of average hourly earnings exclusive of overtime makes no allowance for special rates of pay for work on holidays. See also *Historical Statistics, Colonial Times to 1957*, series D 626-628]

YEAR	Workers, annual average (1,000)	Gross average weekly earnings	NET SPENDABLE AVERAGE WEEKLY EARNINGS				Average weekly hours	AVERAGE HOURLY EARNINGS		
			Worker with no dependents		Worker with 3 dependents			Gross	Exclud- ing overtime	
			Current dollars	1957-59 dollars	Current dollars	1957-59 dollars				
1940	8,940	\$24.96	\$24.46	\$50.12	\$24.71	\$50.64	38.1	\$0.66	-----	
1945	13,009	44.20	36.82	58.72	42.59	67.93	43.5	1.02	1 \$0.95	
1950	12,523	58.32	50.26	59.98	56.36	67.26	40.5	1.44	1.39	
1955	13,238	75.70	62.51	67.00	69.79	74.50	40.7	1.86	1.79	
1956	13,436	78.78	64.92	68.55	72.25	76.29	40.4	1.95	1.89	
1957	13,189	81.59	66.93	68.30	74.31	75.83	39.8	2.05	1.99	
1958	11,997	82.71	67.82	67.35	75.23	74.71	39.2	2.11	2.05	
1959	12,596	88.26	71.89	70.83	79.40	78.23	40.3	2.19	2.12	
1960	12,582	89.72	72.57	70.39	89.11	77.70	39.7	2.26	2.20	
1961	12,044	92.34	74.60	71.59	82.18	78.87	39.8	2.32	2.25	
1962	12,417	96.56	77.86	73.87	85.53	81.15	40.4	2.39	2.31	
1963, March (prel.)	12,226	97.84	78.48	73.85	86.11	81.08	40.1	2.44	2.36	

<sup>1</sup> Eleven-month average; August 1945 excluded because of V-J day holiday period.

Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

**No. 311. PRODUCTION WORKERS—HOURS AND GROSS EARNINGS, BY INDUSTRY:**  
**1960, 1961, AND 1962**

[Includes Alaska and Hawaii. Data based on reports from cooperating establishments covering both full- and part-time employees who worked during, or received pay for, any part of the pay period ending nearest the 15th of the month. For mining, manufacturing, laundries, and cleaning and dyeing plants, data refer to production and related workers only; for contract construction industries, to employees engaged in actual construction work; for other industries, to nonsupervisory employees and working supervisors. See also *Historical Statistics, Colonial Times to 1957*, series D 626-641 and D 669-684, for selected industries.]

INDUSTRY	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960		1961	1960		1961	1960		1962
	1960	1961	1962	1960	1961	1962	1960	1961	1962
<b>Mining</b>									
Metal mining	\$105.44	\$107.18	\$110.70	40.4	40.6	41.0	\$2.61	\$2.64	\$2.70
111.19	113.44	117.86	41.8	41.4	41.5	2.66	2.74	2.84	
Coal mining	110.76	111.34	113.99	35.5	35.8	36.9	3.12	3.11	3.11
Crude petroleum and natural-gas production (exc. contract services)	103.32	105.75	109.20	42.0	41.8	42.0	2.46	2.53	2.60
Quarrying and nonmetallic mining	96.58	100.09	105.20	43.7	43.9	44.2	2.21	2.28	2.38
<b>Contract construction</b>									
General building contractors	112.67	117.71	121.73	36.7	36.9	37.0	3.07	3.19	3.29
103.72	108.83	112.50	35.4	35.8	35.6	2.93	3.04	3.16	
Heavy construction	114.77	118.48	120.99	40.7	40.8	40.6	2.82	2.94	2.98
Special trade contractors	118.11	123.08	128.14	35.9	36.2	36.3	3.29	3.40	3.53
<b>Manufacturing</b>									
Durable goods	89.72	92.34	96.56	39.7	39.8	40.4	2.26	2.32	2.39
97.44	100.10	105.11	40.1	40.2	40.9	2.43	2.49	2.57	
Ordnance and accessories	108.07	113.42	116.88	40.7	40.8	41.3	2.87	2.78	2.83
Lumber and wood products (exc. furniture)	73.71	77.03	78.61	39.0	39.5	39.7	1.89	1.95	1.98
67.20	68.99	71.71	39.3	39.2	39.4	1.71	1.76	1.82	
Sawmills and planing mills	81.19	84.03	86.71	39.8	40.4	40.9	2.04	2.08	2.12
Millwork, plywood, and related products	62.17	63.12	66.40	39.6	39.7	40.0	1.57	1.59	1.66
Wooden containers	75.20	76.21	79.37	40.0	39.9	40.7	1.88	1.91	1.95
Furniture and fixtures	70.45	71.46	75.07	39.8	39.7	40.8	1.77	1.80	1.84
Household furniture	90.42	90.54	91.94	41.1	40.6	40.5	2.20	2.23	2.27
Office furniture	96.72	100.53	103.82	40.3	40.7	41.2	2.40	2.47	2.52
Partitions, office and store	92.97	95.24	98.57	40.6	40.7	40.9	2.29	2.34	2.41
Stone, clay, and glass products	127.36	122.68	125.68	40.3	38.7	38.2	3.16	3.17	3.29
Flat glass	91.94	95.44	98.09	39.8	40.1	40.2	2.31	2.38	2.44
Glass and glassware, pressed or blown	102.87	106.52	112.48	40.5	40.5	40.9	2.54	2.63	2.75
Cement, hydraulic	82.21	84.45	86.69	40.3	40.6	40.7	2.04	2.08	2.13
Structural clay products	81.37	82.30	87.47	38.2	38.1	39.4	2.13	2.16	2.22
Pottery and related products	93.04	97.10	100.96	42.1	42.4	42.6	2.21	2.29	2.37
Concrete, gypsum, and plaster products	109.59	114.95	119.50	39.0	39.5	40.1	2.81	2.91	2.98
Nonferrous foundries	116.13	122.92	126.75	38.2	38.9	39.0	3.04	3.16	3.25
Primary metal industries	96.61	98.81	106.52	38.8	38.9	40.5	2.49	2.54	2.63
Blast furnace and basic steel products	108.09	109.48	114.67	41.1	40.7	41.1	2.63	2.69	2.79
Iron and steel foundries	105.01	111.76	116.05	40.7	41.7	42.2	2.58	2.68	2.75
Nonferrous rolling, drawing, and extruding	97.51	100.35	103.48	39.8	40.3	40.9	2.45	2.49	2.53
Fabricated metal products (exc. ordnance, machinery, and transportation equipment)	98.82	100.85	104.81	40.5	40.5	41.1	2.44	2.49	2.55
Metal cans	114.08	121.80	126.90	41.4	42.0	42.3	2.77	2.90	3.00
Cutlery, handtools, and general hardware	93.03	93.93	99.55	40.1	39.8	40.8	2.32	2.36	2.44
Heating equipment and plumbing fixtures	91.26	94.56	98.40	39.0	39.4	40.0	2.34	2.40	2.46
Fabricated structural metal products	99.47	102.47	105.01	40.6	40.5	40.7	2.45	2.53	2.58
Screw machine products, bolts, etc.	95.58	98.90	105.75	40.5	40.7	42.3	2.36	2.43	2.50
Metal stampings	107.74	105.01	111.07	41.6	40.7	41.6	2.59	2.58	2.67
Coating, engraving, and allied services	86.43	90.32	93.11	40.2	40.5	41.2	2.15	2.23	2.26
Machinery (except electrical)	104.55	107.16	112.59	41.0	40.9	41.7	2.55	2.62	2.70
Engines and turbines	109.69	114.11	119.18	39.6	39.6	40.4	2.77	2.86	2.95
Farm machinery and equipment	99.85	103.46	108.00	40.1	40.1	40.6	2.49	2.58	2.66
Construction and related machinery	102.66	106.52	111.92	40.1	40.5	41.3	2.56	2.63	2.71
Metalworking machinery and equipment	117.27	116.90	125.14	42.8	41.9	43.3	2.74	2.79	2.89
Special-industry machinery (except metalworking)	99.72	101.43	106.77	41.9	41.4	42.2	2.38	2.45	2.53
General industrial machinery	101.71	105.04	111.24	40.2	40.4	41.2	2.53	2.60	2.70
Office, computing, and accounting machines	106.23	111.24	112.74	40.7	41.2	40.7	2.61	2.70	2.77
Service-industry machines	93.43	95.84	100.12	40.1	40.1	40.7	2.33	2.39	2.46
Electrical equipment and supplies	90.74	94.47	97.44	39.8	40.2	40.6	2.28	2.35	2.40
Electric distribution equipment	97.77	101.00	102.87	40.4	40.4	40.5	2.42	2.50	2.54
Electrical industrial apparatus	95.44	99.38	102.66	40.1	40.4	40.9	2.38	2.46	2.51
Household appliances	96.23	101.30	104.23	39.6	40.2	40.4	2.43	2.52	2.58
Electric lighting and wiring equipment	84.71	87.91	90.85	39.4	39.6	40.2	2.15	2.22	2.26
Radio and TV receiving sets	80.11	82.50	86.15	38.7	39.1	39.7	2.07	2.11	2.17
Communication equipment	98.82	102.31	106.30	40.5	40.6	41.2	2.44	2.52	2.58
Electronic components and accessories	76.24	80.40	82.21	39.5	40.2	40.1	1.93	2.00	2.05
Transportation equipment	111.52	113.81	122.22	40.7	40.5	42.0	2.74	2.81	2.91
Motor vehicles and equipment	115.21	115.09	127.37	41.0	40.1	42.6	2.81	2.87	2.99
Aircraft and parts	110.43	115.09	120.25	40.9	41.4	41.9	2.70	2.78	2.87
Ship and boat building and repairing	103.75	110.92	114.17	39.3	39.9	40.2	2.64	2.78	2.84
Railroad equipment	107.86	108.39	118.40	38.8	38.3	40.0	2.78	2.83	2.96

## Labor Force, Employment, and Earnings

No. 311. PRODUCTION WORKERS—HOURS AND GROSS EARNINGS, BY INDUSTRY:  
1960, 1961, AND 1962—Continued

INDUSTRY	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960	1961	1962	1960	1961	1962	1960	1961	1962
<b>Manufacturing—Continued</b>									
<b>Durable goods—Continued</b>									
Instruments and related products.....	\$93.73	\$97.27	\$100.21	40.4	40.7	40.9	\$2.32	\$2.39	\$2.45
Engineering and scientific instruments.....	110.95	112.48	116.33	41.4	40.9	41.4	2.08	2.76	2.81
Mechanical measuring and control devices.....	92.00	95.91	99.38	40.0	40.3	40.4	2.30	2.38	2.46
Optical and ophthalmic goods.....	81.80	87.33	89.62	40.1	41.0	41.3	2.04	2.13	2.17
Surgical, medical, and dental equipment.....	80.40	82.21	85.47	40.0	40.3	40.7	2.01	2.04	2.10
Photographic equipment and supplies.....	106.14	111.61	116.48	41.3	41.8	41.9	2.57	2.67	2.78
Watches and clocks.....	76.83	80.58	83.58	39.0	39.5	39.8	1.97	2.04	2.10
<b>Miscellaneous manufacturing industries</b>	<b>74.28</b>	<b>75.84</b>	<b>78.21</b>	<b>39.3</b>	<b>39.5</b>	<b>39.7</b>	<b>1.89</b>	<b>1.92</b>	<b>1.97</b>
Jewelry, silverware, and plated ware.....	80.40	82.62	86.03	40.2	40.3	40.2	2.00	2.05	2.14
Toys, amusement, and sporting goods.....	67.73	70.17	70.80	38.7	39.2	38.9	1.75	1.79	1.82
Pens, pencils, office and art materials.....	71.92	73.86	74.64	39.3	39.6	39.7	1.83	1.84	1.88
Costume jewelry, buttons, notions.....	66.13	68.60	71.68	38.9	39.2	39.6	1.70	1.75	1.81
<b>Nondurable goods</b>	<b>80.36</b>	<b>82.92</b>	<b>86.15</b>	<b>39.2</b>	<b>39.3</b>	<b>39.7</b>	<b>2.05</b>	<b>2.11</b>	<b>2.17</b>
<b>Food and kindred products</b>	<b>86.30</b>	<b>89.16</b>	<b>92.25</b>	<b>40.9</b>	<b>40.9</b>	<b>41.0</b>	<b>2.11</b>	<b>2.18</b>	<b>2.25</b>
Meat products.....	94.83	97.58	100.12	40.7	41.0	40.7	2.33	2.38	2.46
Dairy products.....	89.68	92.65	95.63	42.3	42.5	42.5	2.12	2.18	2.25
Canned and preserved food, except meats.....	68.71	71.04	74.11	38.6	38.4	38.8	1.78	1.85	1.91
Grain-mill products.....	94.15	99.46	102.81	44.2	44.8	44.7	2.13	2.22	2.30
Bakery products.....	83.81	87.64	91.13	40.1	40.2	40.5	2.09	2.18	2.25
Sugar.....	93.70	97.65	103.15	44.2	43.4	42.1	2.12	2.25	2.45
Confectionery and related products.....	69.34	73.23	76.61	39.4	39.8	39.9	1.76	1.84	1.92
Beverages.....	96.72	99.85	102.91	40.3	40.1	40.2	2.40	2.49	2.56
<b>Tobacco manufactures</b>	<b>64.94</b>	<b>69.03</b>	<b>72.00</b>	<b>38.2</b>	<b>39.0</b>	<b>38.5</b>	<b>1.70</b>	<b>1.77</b>	<b>1.87</b>
Cigarettes.....	80.29	85.72	89.54	38.6	39.5	39.1	2.08	2.17	2.29
Cigars.....	53.86	56.02	57.82	37.4	37.6	37.3	1.44	1.49	1.55
<b>Textile-mill products</b>	<b>63.60</b>	<b>65.04</b>	<b>68.21</b>	<b>39.5</b>	<b>39.9</b>	<b>40.6</b>	<b>1.61</b>	<b>1.63</b>	<b>1.68</b>
Cotton broad woven fabrics.....	62.56	63.20	66.91	40.1	40.0	40.8	1.56	1.58	1.64
Silk and synthetic broad woven fabrics.....	63.31	68.72	73.44	41.4	41.4	42.7	1.65	1.66	1.72
Weaving and finishing broad woolens.....	69.83	72.28	77.17	40.6	41.6	42.4	1.72	1.75	1.82
Narrow fabrics and small wares.....	66.07	68.11	70.33	38.9	40.3	41.0	1.68	1.69	1.73
Knitting.....	56.93	59.21	61.60	37.7	38.2	38.5	1.51	1.55	1.60
Finishing textiles, except wool and knit.....	71.73	74.70	78.07	40.3	41.5	42.2	1.78	1.80	1.85
Floor covering.....	70.62	72.04	73.63	39.9	40.7	41.6	1.77	1.77	1.77
Yarn and thread.....	58.05	59.55	62.22	38.7	39.7	40.4	1.50	1.50	1.54
<b>Apparel and related products</b>	<b>56.45</b>	<b>57.70</b>	<b>60.62</b>	<b>35.5</b>	<b>35.4</b>	<b>36.3</b>	<b>1.50</b>	<b>1.63</b>	<b>1.67</b>
Men's and boys' suits and coats.....	68.27	67.78	72.64	36.9	35.3	37.2	1.85	1.92	1.95
Men's and boys' furnishings and workclothing.....	48.55	49.87	53.53	36.5	36.4	37.7	1.33	1.37	1.42
Women's, misses', and juniors' outerwear.....	58.76	61.61	64.45	33.2	33.3	34.1	1.77	1.85	1.89
Women's, children's undergarments.....	51.91	53.87	55.33	35.8	36.4	36.4	1.45	1.48	1.52
Hats, caps, and millinery.....	60.54	63.19	65.88	35.2	35.7	36.2	1.72	1.77	1.82
Girls' and children's outerwear.....	51.54	52.75	54.72	35.3	35.4	36.0	1.46	1.49	1.52
Fur goods and mise. apparel.....	58.74	60.86	62.04	35.6	35.8	36.0	1.65	1.70	1.74
<b>Paper and allied products</b>	<b>95.37</b>	<b>99.45</b>	<b>102.67</b>	<b>42.2</b>	<b>42.5</b>	<b>42.6</b>	<b>2.26</b>	<b>2.34</b>	<b>2.41</b>
Paper and pulp.....	105.46	109.69	112.67	43.4	43.7	43.5	2.43	2.51	2.59
Paperboard.....	105.16	109.44	114.22	43.1	43.6	44.1	2.44	2.51	2.59
Converted paper and paperboard products.....	83.23	87.13	89.82	40.8	41.1	41.2	2.04	2.12	2.18
Paperboard containers and boxes.....	86.10	90.47	93.41	41.0	41.5	41.7	2.10	2.18	2.24
<b>Printing, publishing, and allied industries</b>	<b>102.80</b>	<b>105.05</b>	<b>108.01</b>	<b>38.5</b>	<b>38.2</b>	<b>38.3</b>	<b>2.67</b>	<b>2.75</b>	<b>2.82</b>
Newspapers.....	105.33	107.38	110.29	36.7	36.4	36.4	2.37	2.95	3.03
Periodicals.....	109.18	110.09	111.67	39.7	39.6	39.6	2.75	2.78	2.82
Books.....	95.82	99.06	99.00	40.6	40.6	40.0	2.36	2.44	2.49
Commercial printing.....	103.88	106.20	110.15	39.2	38.9	39.2	2.65	2.73	2.81
Bookbinding and related industries.....	78.87	82.13	85.91	38.1	38.2	38.7	2.07	2.15	2.22
<b>Chemicals and allied products</b>	<b>103.25</b>	<b>106.81</b>	<b>109.98</b>	<b>41.3</b>	<b>41.4</b>	<b>41.5</b>	<b>2.50</b>	<b>2.58</b>	<b>2.65</b>
Industrial chemicals.....	117.31	120.93	124.68	41.6	41.7	41.7	2.32	2.90	2.99
Plastics and synthetics, except glass.....	104.17	107.74	110.35	41.5	41.6	41.8	2.51	2.59	2.64
Drugs.....	90.68	93.06	98.64	40.3	40.5	41.1	2.25	2.32	2.40
Soap, cleaners, and toilet goods.....	94.77	98.98	102.06	40.5	40.9	40.9	2.34	2.42	2.51
Paints, varnishes, and allied products.....	95.65	98.25	101.59	40.7	40.6	40.8	2.35	2.42	2.49
Agricultural chemicals.....	82.37	84.15	88.39	42.9	42.5	42.7	1.02	1.98	2.07
<b>Petroleum refining and related industries</b>	<b>118.78</b>	<b>124.42</b>	<b>126.88</b>	<b>41.1</b>	<b>41.2</b>	<b>41.6</b>	<b>2.89</b>	<b>3.02</b>	<b>3.05</b>
Petroleum refining.....	123.22	129.24	131.02	40.8	40.9	41.2	3.02	3.16	3.18
Rubber and miscellaneous plastic products.....	92.97	96.72	100.86	39.9	40.3	41.0	2.33	2.40	2.46
Tires and inner tubes.....	116.33	121.88	130.15	39.3	39.7	40.8	2.98	3.07	3.19
Leather and leather products.....	60.52	62.83	64.84	36.9	37.4	37.7	1.64	1.68	1.72
Leather: tanning and finishing.....	81.74	84.35	87.20	39.3	39.6	40.0	2.08	2.13	2.18
Footwear (except rubber).....	58.04	60.15	62.66	36.5	36.9	37.3	1.69	1.63	1.68

No. 311. PRODUCTION WORKERS—HOURS AND GROSS EARNINGS, BY INDUSTRY:  
1960, 1961, AND 1962—Continued

INDUSTRY	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960	1961	1962	1960	1961	1962	1960	1961	1962
<b>Manufacturing—Continued</b>									
<b>Nondurable goods—Continued</b>									
Transportation and public utilities:									
Class I railroads.....	\$108.84	\$112.41	n.a.	41.7	42.1	n.a.	\$2.61	\$2.67	n.a.
Local and interurban passenger transit:									
Local and suburban transportation <sup>1</sup> .....	94.82	98.24	\$100.30	43.1	42.9	42.5	2.20	2.29	\$2.36
Intercity and rural bus lines.....	105.22	122.14	119.69	42.6	42.8	42.9	2.47	2.62	2.70
Motor freight transportation and storage.....	104.17	108.16	112.88	41.5	41.6	41.5	2.51	2.60	2.72
Pipeline transportation.....	124.53	131.78	132.44	40.3	40.3	40.5	3.09	3.27	3.27
Telephone communication.....	89.50	93.38	98.80	39.6	39.4	40.0	2.26	2.37	2.47
Telegraph communication <sup>2</sup> .....	100.01	104.08	107.75	42.2	41.8	42.1	2.37	2.49	2.56
Radio and television broadcasting.....	121.13	119.74	127.92	38.7	38.5	39.0	3.13	3.11	3.23
Electric, gas, and sanitary services.....	108.65	112.48	116.85	41.0	40.9	41.0	2.65	2.75	2.85
Trade:									
Wholesale trade.....	91.13	93.56	96.63	40.5	40.5	40.6	2.25	2.31	2.38
Retail trade (except eating and drinking places).....	62.37	64.01	66.33	38.5	38.1	37.9	1.62	1.68	1.75
General merchandise stores.....	48.58	50.52	52.59	34.7	34.6	34.6	1.40	1.46	1.52
Food stores.....	60.98	63.01	64.43	36.3	35.8	35.4	1.68	1.76	1.82
Apparel and accessories stores.....	51.30	52.40	53.63	34.9	34.7	34.6	1.47	1.51	1.55
Furniture and appliance stores.....	74.98	77.64	80.75	41.2	41.3	41.2	1.82	1.88	1.96
Finance, insurance, and real estate:									
Banking.....	67.15	69.19	71.80	37.1	37.0	37.2	1.81	1.87	1.93
Security dealers and exchanges.....	117.12	133.35	117.03	.....	.....	.....	.....	.....	.....
Insurance carriers.....	87.41	89.83	93.53	.....	.....	.....	.....	.....	.....
Service and miscellaneous:									
Hotels, tourist courts, and motels <sup>3</sup> .....	43.89	45.54	46.53	39.9	39.6	39.1	1.10	1.15	1.19
Laundries, cleaning and dyeing plants.....	48.11	49.28	50.67	38.8	38.8	38.9	1.24	1.27	1.30
Motion picture filming and distributing.....	113.60	116.45	116.26	.....	.....	.....	.....	.....	.....

n.a. Not available.

<sup>1</sup> Data include only privately operated establishments.<sup>2</sup> Excludes messengers.<sup>3</sup> Money payments only; additional value of board, room, uniforms, and tips excluded.Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 312. HOURLY AND WEEKLY EARNINGS IN CURRENT AND 1962 PRICES, SELECTED INDUSTRIES: 1940 TO 1962

[Beginning 1959, includes Alaska and Hawaii. Includes overtime. Data are for production workers in manufacturing, construction workers in contract construction, and nonsupervisory employees in retail trade]

TYPE OF EARNINGS AND YEAR	MANUFACTURING						CONTRACT CONSTRUCTION		RETAIL TRADE	
	Total		Durable		Nondurable		Current prices	1962 prices <sup>1</sup>	Current prices	1962 prices <sup>1</sup>
	Current prices	1962 prices <sup>1</sup>	Current prices	1962 prices <sup>1</sup>	Current prices	1962 prices <sup>1</sup>	Current prices	1962 prices <sup>1</sup>	Current prices	1962 prices <sup>1</sup>
<b>HOURLY</b>										
1940.....	\$0.66	\$1.41	\$0.72	\$1.55	\$0.50	\$1.27	n.a.	n.a.	\$0.49	\$1.07
1945.....	1.02	1.71	1.10	1.85	.89	1.49	n.a.	n.a.	.70	1.17
1950.....	1.44	1.81	1.52	1.91	1.35	1.69	\$1.86	\$2.34	1.05	1.32
1955.....	1.86	2.10	1.99	2.25	1.67	1.89	2.45	2.77	1.34	1.51
1956.....	1.95	2.17	2.08	2.32	1.77	1.97	2.57	2.86	1.40	1.56
1957.....	2.05	2.20	2.19	2.35	1.85	1.99	2.71	2.91	1.47	1.58
1958.....	2.11	2.21	2.26	2.37	1.91	2.00	2.82	2.95	1.52	1.59
1959.....	2.19	2.27	2.36	2.45	1.98	2.06	2.93	3.04	1.57	1.63
1960.....	2.26	2.31	2.43	2.48	2.05	2.10	3.07	3.14	1.62	1.66
1961.....	2.82	2.35	2.49	2.52	2.11	2.13	3.19	3.23	1.08	1.70
1962.....	2.39	2.39	2.57	2.57	2.17	2.17	3.28	3.28	1.75	1.75
<b>WEEKLY</b>										
1940.....	24.96	53.91	28.07	60.63	21.83	47.15	n.a.	n.a.	21.34	46.09
1945.....	44.20	74.29	48.36	81.28	37.48	62.99	n.a.	n.a.	28.59	48.05
1950.....	58.32	73.36	62.43	78.53	53.48	67.27	69.68	87.65	43.16	54.29
1955.....	75.70	85.54	82.19	92.87	66.68	75.29	90.90	102.71	53.06	59.95
1956.....	78.78	87.73	85.28	94.97	70.09	78.05	96.38	107.33	54.74	60.96
1957.....	81.59	87.73	88.26	94.90	72.52	77.98	100.27	107.82	56.89	61.17
1958.....	82.71	86.01	89.27	93.48	74.11	77.60	103.78	108.67	58.82	61.50
1959.....	88.26	91.65	96.05	99.74	78.61	81.63	108.41	112.53	60.76	63.09
1960.....	89.72	91.74	97.44	99.63	80.36	82.17	112.67	115.20	62.37	63.77
1961.....	92.34	93.37	100.10	101.21	82.92	83.84	117.71	119.02	64.01	64.72
1962.....	96.56	96.56	105.11	105.11	86.15	86.15	120.70	120.70	66.33	66.33

n.a. Not available.

<sup>1</sup> Earnings in current prices divided by consumer price index on base 1962=100.

Source: Executive Office of the President, Council of Economic Advisers. Based on Department of Labor data.

## Labor Force, Employment, and Earnings

No. 313. PRODUCTION WORKERS IN MANUFACTURING INDUSTRIES—HOURS AND GROSS EARNINGS, BY STATES: 1960 to 1962

STATE	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960	1961	1962	1960	1961	1962	1960	1961	1962
	\$89.72	\$92.34	\$96.56	39.7	39.8	40.4	\$2.26	\$2.32	\$2.39
United States <sup>1</sup>									
New England:									
Maine.....	71.15	73.38	76.73	40.2	40.1	40.6	1.77	1.83	1.89
New Hampshire.....	70.45	73.35	76.33	39.8	40.3	40.6	1.77	1.82	1.88
Vermont.....	76.59	78.06	82.12	41.4	41.3	41.9	1.85	1.89	1.96
Massachusetts.....	81.96	85.55	89.16	39.2	39.5	39.8	2.09	2.17	2.24
Rhode Island.....	73.70	77.60	81.20	39.2	40.0	40.2	1.88	1.94	2.02
Connecticut.....	92.26	97.27	101.35	40.2	40.7	41.2	2.32	2.39	2.46
Middle Atlantic:									
New York.....	89.61	92.21	96.02	38.8	38.8	39.3	2.31	2.38	2.44
New Jersey.....	93.93	97.60	101.66	39.6	40.0	40.5	2.37	2.44	2.51
Pennsylvania.....	89.86	91.65	94.95	38.9	39.0	39.4	2.31	2.35	2.41
East North Central:									
Ohio.....	104.13	107.15	112.59	40.0	40.0	40.8	2.60	2.68	2.76
Indiana.....	100.49	102.78	108.29	40.0	40.1	40.9	2.51	2.56	2.65
Illinois.....	97.70	100.99	105.27	40.0	40.1	40.6	2.45	2.52	2.60
Michigan.....	112.00	112.32	121.43	40.8	40.1	41.8	2.75	2.80	2.91
Wisconsin.....	96.32	97.66	103.86	40.6	40.6	41.4	2.37	2.41	2.51
West North Central:									
Minnesota.....	95.07	99.46	102.35	40.4	40.5	40.5	2.36	2.45	2.52
Iowa.....	93.68	97.68	100.53	39.8	40.0	39.9	2.35	2.45	2.53
Missouri.....	87.57	90.04	94.52	39.1	39.1	39.7	2.24	2.30	2.38
North Dakota.....	81.85	87.48	88.18	41.4	42.1	41.3	1.97	2.09	2.14
South Dakota.....	90.90	95.19	97.87	45.0	45.6	45.1	2.02	2.09	2.17
Nebraska.....	87.41	91.15	94.20	42.0	42.3	42.8	2.08	2.15	2.20
Kansas.....	95.82	99.73	105.54	40.6	41.0	41.8	2.36	2.43	2.52
South Atlantic:									
Delaware.....	91.01	93.03	98.33	39.4	40.1	40.8	2.31	2.32	2.41
Maryland.....	90.63	93.37	96.48	40.1	39.9	40.2	2.26	2.34	2.40
District of Columbia <sup>2</sup> .....	97.61	102.25	104.94	39.2	40.1	39.9	2.49	2.55	2.63
Virginia.....	70.62	74.50	78.31	39.9	40.3	41.0	1.77	1.85	1.91
West Virginia.....	93.27	97.95	101.29	38.7	39.5	39.7	2.41	2.48	2.55
North Carolina.....	61.14	63.36	66.91	39.7	40.1	40.8	1.54	1.58	1.64
South Carolina.....	63.27	65.20	69.22	40.3	40.5	41.2	1.57	1.61	1.68
Georgia.....	65.40	67.09	70.08	39.4	39.7	40.1	1.66	1.69	1.77
Florida.....	76.07	79.71	82.19	40.9	41.3	41.3	1.86	1.93	1.99
East South Central:									
Kentucky.....	83.92	88.18	91.03	39.4	39.9	40.1	2.13	2.21	2.27
Tennessee.....	73.23	75.20	78.16	39.8	40.0	40.5	1.84	1.88	1.93
Alabama.....	75.65	79.20	82.61	39.4	39.6	40.1	1.92	2.00	2.06
Mississippi.....	60.50	61.93	65.27	39.8	39.7	39.8	1.52	1.56	1.64
West South Central:									
Arkansas.....	62.71	64.56	66.23	40.2	40.1	39.9	1.56	1.61	1.66
Louisiana.....	86.71	90.58	95.72	40.9	40.8	41.8	2.12	2.22	2.29
Oklahoma.....	85.47	87.53	90.23	40.7	40.9	41.2	2.10	2.14	2.19
Texas.....	89.19	92.48	96.05	41.1	41.1	41.4	2.17	2.25	2.32
Mountain:									
Montana.....	96.04	102.77	103.20	39.2	40.3	40.0	2.45	2.55	2.58
Idaho.....	90.00	90.52	92.66	40.0	39.7	39.6	2.25	2.28	2.34
Wyoming.....	95.25	98.00	96.83	37.5	37.5	37.1	2.54	2.56	2.61
Colorado.....	98.25	103.48	106.75	40.6	40.9	40.9	2.42	2.53	2.61
New Mexico.....	82.58	84.99	88.75	39.7	39.9	40.4	2.08	2.13	2.20
Arizona.....	99.14	101.81	102.80	40.3	40.4	40.0	2.46	2.52	2.57
Utah.....	98.89	104.12	106.67	40.2	40.2	40.1	2.46	2.50	2.66
Nevada.....	113.30	115.60	121.10	41.2	40.0	40.1	2.75	2.80	3.02
Pacific: <sup>1</sup>									
Washington.....	101.78	106.08	110.71	38.7	39.0	39.4	2.63	2.72	2.81
Oregon.....	97.04	100.36	103.22	38.1	38.6	39.1	2.55	2.60	2.64
California.....	104.23	108.53	112.44	39.8	39.9	40.3	2.62	2.72	2.79

<sup>1</sup> Alaska and Hawaii included in U.S. averages but individual State data not available.<sup>2</sup> Represents Washington, D.C., Standard Metropolitan Statistical Area.Source: Department of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

**No. 314. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—PERCENT DISTRIBUTION BY AVERAGE HOURLY EARNINGS, BY REGIONS: 1954 AND 1958**  
 [Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. For composition of regions, see Fig. 1, p. XII, except that U.S. and West exclude Alaska and Hawaii]

AVERAGE HOURLY EARNINGS	UNITED STATES		NORTHEAST		SOUTH		NORTH CENTRAL		WEST	
	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers
<b>April 1954</b>										
Under \$1.00	10.2	10.2	8.0	8.0	28.2	28.2	4.1	4.1	1.8	1.8
\$1.00 to \$1.09	5.1	15.3	5.2	13.2	10.4	38.6	2.8	6.9	1.6	3.4
\$1.10 to \$1.19	4.7	20.0	5.4	18.6	8.0	46.6	2.9	9.8	1.6	4.9
\$1.20 to \$1.29	5.3	25.4	6.5	25.1	7.0	53.6	3.8	13.6	3.1	8.0
\$1.30 to \$1.39	5.7	31.1	7.0	32.1	6.1	59.8	4.7	18.4	3.2	11.2
\$1.40 to \$1.49	6.0	37.1	7.8	39.9	5.5	65.3	5.2	23.6	3.4	14.5
\$1.50 to \$1.59	7.5	44.6	8.7	48.6	5.9	71.2	7.9	31.5	5.1	19.6
\$1.60 to \$1.69	8.0	52.5	8.4	56.9	4.8	76.1	9.4	40.9	7.6	27.2
\$1.70 to \$1.79	7.6	60.2	7.8	64.7	4.1	80.2	9.1	50.1	8.7	35.9
\$1.80 to \$1.89	7.5	67.6	6.9	71.6	3.8	84.0	9.1	59.2	12.1	48.0
\$1.90 to \$1.99	7.5	75.2	5.8	77.3	3.3	87.4	10.9	70.1	11.0	59.0
\$2.00 to \$2.19	10.7	85.9	9.0	86.3	5.6	92.9	13.7	83.7	18.0	77.0
\$2.20 to \$2.39	6.1	91.9	5.4	91.7	3.5	96.4	6.9	90.7	10.5	87.5
\$2.40 to \$2.59	3.6	95.5	3.3	95.0	1.9	98.3	4.2	94.9	5.6	93.2
\$2.60 to \$2.79	1.8	97.3	1.8	96.8	0.8	99.1	2.2	97.1	2.6	95.8
\$2.80 to \$2.99	1.0	98.3	1.1	97.9	0.4	99.5	1.2	98.3	1.4	97.3
\$3.00 and over	1.7	100.0	2.1	100.0	0.5	100.0	1.7	100.0	2.7	100.0
<b>May 1958</b>										
Number of workers										
1,000..	11,245	11,245	3,994	3,994	2,422	2,422	3,772	3,772	1,056	1,056
Average hourly earnings	\$1.97	\$1.97	\$1.94	\$1.94	\$1.63	\$1.63	\$2.13	\$2.13	\$2.26	\$2.26
Under \$1.00	0.3	0.3	0.1	0.1	0.9	0.9	0.2	0.2	0.1	0.1
\$1.00 to \$1.09	7.6	7.9	5.4	5.5	20.8	21.7	3.0	3.2	2.1	2.2
\$1.10 to \$1.19	5.3	13.2	5.4	10.9	10.8	32.5	2.6	5.9	1.1	3.4
\$1.20 to \$1.29	5.5	18.6	6.2	17.1	9.6	42.1	2.9	8.8	1.8	5.2
\$1.30 to \$1.39	4.3	22.9	5.5	22.6	6.2	48.3	2.7	11.4	1.7	6.9
\$1.40 to \$1.49	4.1	27.0	4.9	27.5	4.9	53.3	3.3	14.7	1.9	8.8
\$1.50 to \$1.59	4.8	31.8	6.1	33.6	4.9	58.2	3.9	18.6	2.9	11.6
\$1.60 to \$1.69	4.7	36.5	5.6	39.2	4.4	62.6	4.5	23.1	3.0	14.7
\$1.70 to \$1.79	5.1	41.7	6.1	45.3	4.4	66.9	5.0	28.1	3.7	18.4
\$1.80 to \$1.89	5.2	46.9	5.7	51.0	3.3	70.2	6.1	34.2	4.5	22.0
\$1.90 to \$1.99	5.0	51.8	5.2	56.2	3.2	73.4	5.7	39.8	5.9	28.8
\$2.00 to \$2.19	11.8	63.7	11.5	67.8	5.6	79.1	14.6	54.4	17.8	46.6
\$2.20 to \$2.39	11.7	75.4	10.1	77.8	6.0	85.1	16.1	70.5	15.3	61.9
\$2.40 to \$2.59	8.5	84.0	7.8	85.6	4.9	90.0	10.5	81.0	12.8	74.7
\$2.60 to \$2.79	6.1	90.0	5.4	91.1	3.5	93.5	6.9	87.8	11.3	86.0
\$2.80 to \$2.99	4.2	94.3	3.7	94.7	3.2	96.7	5.3	93.0	5.5	91.4
\$3.00 and over	5.7	100.0	5.3	100.0	3.3	100.0	7.0	100.0	8.6	100.0

Source: Department of Labor, Bureau of Labor Statistics; *Factory Workers' Earnings: Distribution by Straight-Time Hourly Earnings, April 1954* (Bulletin No. 1179) and *Factory Workers' Earnings, May 1958* (Bulletin No. 1252).

**No. 315. PERCENT OF OFFICE AND PLANT WORKERS EMPLOYED IN ESTABLISHMENTS HAVING FORMAL PROVISIONS FOR SELECTED SUPPLEMENTARY WAGE BENEFITS, 188 STANDARD METROPOLITAN STATISTICAL AREAS: 1962**

Surveys relate geographically to the 188 standard metropolitan statistical areas in the United States, excluding Alaska and Hawaii, as established by the Bureau of the Budget through 1959. Based on occupational wage surveys conducted in 80 areas, selected to represent the 188 areas. Information on establishment practices is obtained annually in 6 of the largest areas. In the other areas, it is obtained biennially in a rotating cycle. Data for a majority of the workers relate to late 1961 and early 1962; for the remainder, to late 1960 and early 1961. Data obtained from sample of establishments which employ 50 workers or more, except in 12 of the largest areas where the minimum size was 100 employees for manufacturing, public utilities, and retail trade; see source. Excludes data for government institutions, and construction and extractive industries. Excludes administrative, executive, and professional employees.

TYPE OF BENEFIT	Office workers	Plant workers	TYPE OF BENEFIT	Office workers	Plant workers
Paid holidays: <sup>1</sup>			Paid vacations <sup>2</sup> : Con.		
Under 6 days	3	7	4 weeks or more	44	31
6 or more days	96	88	After 20 years of service	16	13
7 or more days	77	68	After 25 years of service	41	30
8 or more days	45	26	Health, insurance, and pension plans:		
9 or more days	26	8	Life insurance	95	91
11 or more days	13	2	Hospitalization	84	88
12 or more days	4	1	Surgical	83	86
Paid vacations: <sup>2</sup>			Medical	66	63
2 weeks or more	99	95	Catastrophe	55	26
After 1 year of service	77	21	Sickness and accident insurance	40	64
After 5 years of service	99	94	Sick leave (full pay and no waiting period)	59	15
3 weeks or more	87	76	Sick leave (partial pay and/or waiting period)	7	11
After 10 years of service	9	7	Retirement pension <sup>3</sup>	78	68
After 15 years of service	44	32			
	85	75			

<sup>1</sup> Relates to holidays provided annually. Data represent half-day and full-day holidays combined.

<sup>2</sup> Such payments as percentages of annual earning or flat-sum payments were converted to an equivalent time basis.

<sup>3</sup> Includes retirement-type profit-sharing plans.

Source: Department of Labor, Bureau of Labor Statistics; *Wages and Related Benefits: All Metropolitan Areas, 1961-62* (Bulletin No. 1303-S3, Part Two.)

**No. 316. AVERAGE EMPLOYER EXPENDITURES FOR SELECTED SUPPLEMENTARY REMUNERATION PRACTICES FOR PRODUCTION WORKERS IN MANUFACTURING INDUSTRIES, BY REGIONS: 1959**

[Data based on a sample survey and cover all manufacturing establishments having 1 or more paid employees. For composition of regions, see fig. I, p. XII.]

REMUNERATION PRACTICE	PERCENT OF GROSS PAYROLL					CENTS PER HOUR PAID				
	United States	North-east	North Central	South	West	United States	North-east	North Central	South	West
Paid leave <sup>1</sup>	6.0	6.3	6.2	5.0	5.8	13.5	14.0	15.3	9.2	14.5
Vacations	3.6	3.6	3.8	3.2	3.2	8.0	8.0	9.4	5.8	8.1
Sick leave	0.2	0.2	0.2	0.3	0.4	.5	.6	.4	.5	1.0
Holidays	2.1	2.4	2.2	1.6	2.1	4.8	5.3	5.4	2.0	5.2
Premium pay	4.3	4.1	4.5	4.5	4.2	9.7	9.2	11.0	8.2	10.5
Daily overtime, weekly overtime, and weekend work	2.6	2.7	2.4	3.1	2.6	5.9	5.0	5.8	5.7	6.5
Holiday work	0.1	0.1	0.1	0.2	0.2	.2	.2	.3	.4	.4
Shift differential	0.9	0.8	1.0	0.7	0.8	1.9	1.8	2.5	1.3	2.1
Premiums not reported separately	0.7	0.6	1.0	0.5	0.6	1.7	1.8	2.6	.8	1.5
Legally required payments <sup>1</sup>	4.5	4.8	4.0	4.5	5.0	10.1	10.7	9.9	8.2	12.6
Old-age, survivors, and disability insurance (social security)	2.2	2.2	2.1	2.2	2.2	4.9	4.8	5.2	4.1	5.4
Unemployment compensation	1.4	1.7	1.2	1.4	1.6	3.2	3.7	3.0	2.5	4.1
Workmen's compensation	0.8	0.8	0.7	0.8	1.2	1.9	1.9	1.7	1.5	2.0
Private welfare plans <sup>1</sup>	5.4	5.5	5.8	4.8	4.4	12.1	12.2	14.3	8.9	11.1
Health, accident, and life insurance	2.1	2.0	2.4	1.7	2.1	4.7	4.4	5.8	3.0	5.3
Pension and retirement plans	2.4	2.3	2.7	2.2	1.7	5.4	5.2	6.6	4.1	4.4
Supplemental unemployment benefits	0.1	0.2	0.2	0.1	0.1	.3	.3	.4	.2	.2
Savings and thrift plans	0.1	0.1	(2)	0.2	0.1	.1	.1	.1	.3	.2
Yearend and Christmas bonuses	0.5	0.6	0.4	0.5	0.3	1.1	1.3	1.0	.9	.8
Plans not reported separately	0.2	0.3	0.1	0.1	(2)	.4	.6	.3	.3	.1

<sup>1</sup>Totals include amounts for practices not shown separately.

<sup>2</sup>Less than 0.05 percent.

Source: Department of Labor, Bureau of Labor Statistics; *Employer Expenditures for Selected Supplementary Remuneration Practices for Production Workers in Manufacturing Industries, 1959*. (Bulletin No. 1308).

**No. 317. FARM EMPLOYMENT AND WAGE RATES: 1950 TO 1963**

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 73-80]

YEAR OR MONTH	EMPLOYMENT <sup>1</sup> (1,000)			WAGE RATES <sup>4</sup>				Index of farm wage rates (1910-14 =100)	
	Total	Family <sup>2</sup>	Hired <sup>3</sup>	Per month		Per day			
				With board	Without board	With board	Without board		
1950	9,926	7,597	2,329	\$99.00	\$121.00	\$4.45	\$4.50	432	
1951	9,546	7,310	2,236	113.00	137.00	5.00	5.00	481	
1952	9,149	7,005	2,144	119.00	146.00	5.30	5.30	508	
1953	8,864	6,775	2,089	122.00	151.00	5.40	5.30	517	
1954	8,639	6,579	2,060	120.00	151.00	5.30	5.30	508	
1955	8,364	6,347	2,017	123.00	154.00	5.40	5.30	519	
1956	7,820	5,899	1,921	128.00	161.00	5.60	5.60	542	
1957	7,577	5,682	1,895	133.00	168.00	5.80	5.80	560	
1958	7,525	5,570	1,955	137.00	176.00	6.10	6.00	582	
1959	7,384	5,450	1,925	144.00	186.00	6.30	6.40	614	
1960	7,118	5,249	1,869	149.00	192.00	6.50	6.60	629	
1961	6,990	5,104	1,886	151.00	195.00	6.50	6.60	642	
1962	6,751	4,934	1,817	155.00	200.00	6.70	6.90	658	
Murch.	5,800	4,567	1,233	150.00	192.00	6.20	6.70	666	
1963, March	5,663	4,431	1,232	199.00	154.00	6.30	6.80	683	

<sup>1</sup>Data are arithmetic means of monthly estimates of persons employed during last full calendar week in each month.

<sup>2</sup>Includes farm operators doing 1 or more hours of farm work and members of their families doing 15 hours or more of unpaid farm work during survey week.

<sup>3</sup>Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

<sup>4</sup>Weighted averages of wage rates as reported quarterly by crop reporters, April 1, 1963.

Source: Department of Agriculture, Statistical Reporting Service; monthly report, *Farm Labor*.

## No. 318. FARM EMPLOYMENT, BY GEOGRAPHIC DIVISIONS: 1940 TO 1962

[In thousands. Excludes Alaska and Hawaii. Annual average number of persons employed during last full calendar week of each month]

GEOGRAPHIC DIVISION <sup>1</sup>	1940	1945	1950	1955	1958	1959	1960	1961	1962
Total workers.....	10,979	10,000	9,926	8,364	7,525	7,384	7,118	6,990	6,751
New England.....	235	225	219	187	171	162	150	143	133
Middle Atlantic.....	679	626	616	502	445	422	404	389	363
East North Central.....	1,604	1,471	1,508	1,424	1,305	1,272	1,220	1,191	1,156
West North Central.....	1,804	1,744	1,779	1,580	1,390	1,360	1,334	1,307	1,297
South Atlantic.....	2,110	1,880	1,812	1,496	1,304	1,294	1,240	1,222	1,157
East South Central.....	1,780	1,545	1,432	1,091	930	928	882	860	827
West South Central.....	1,662	1,397	1,407	1,156	1,023	1,010	972	968	936
Mountain.....	474	446	418	368	358	341	334	326	320
Pacific.....	631	666	675	610	590	595	582	584	562
Hired workers <sup>2</sup> .....	2,679	2,119	2,329	2,017	1,955	1,925	1,869	1,886	1,817
New England.....	75	65	71	69	66	63	59	55	50
Middle Atlantic.....	207	174	185	137	127	121	110	105	96
East North Central.....	319	214	237	206	195	188	182	182	177
West North Central.....	315	241	275	216	212	202	196	188	199
South Atlantic.....	488	358	417	382	369	367	355	366	344
East South Central.....	297	216	240	209	187	189	188	191	185
West South Central.....	504	375	423	364	365	365	359	370	368
Mountain.....	183	164	151	135	139	129	126	121	115
Pacific.....	291	312	330	299	295	301	294	299	283

<sup>1</sup> See table 313 for States comprising each division.

<sup>2</sup> Includes all persons doing one or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Department of Agriculture, Statistical Reporting Service; annual report, *Agricultural Statistics*.

No. 319. FARM WAGE WORKERS—AVERAGE NUMBER OF DAYS WORKED AND AVERAGE CASH WAGES EARNED AT FARM AND NONFARM WAGE WORK, BY SELECTED CHARACTERISTICS: 1961

[Includes Alaska and Hawaii]

ITEM	TOTAL			FARM			NONFARM			
	Number of workers (1,000)	Days worked	Wages earned		Days worked	Wages earned		Days worked	Wages earned	
			Per year	Per day worked <sup>1</sup>		Per year	Per day worked <sup>1</sup>		Per year	Per day worked <sup>1</sup>
Total.....	3,488	108	\$788	\$7.30	77	\$502	\$6.50	31	\$286	\$9.30
25 days or more.....	1,889	156	1,054	6.75	134	881	6.55	22	173	7.90
Migratory <sup>2</sup> .....	296	136	902	6.65	109	677	6.25	27	225	8.40
Nonmigratory.....	1,592	160	1,083	6.75	139	919	6.60	21	104	7.75
Male.....	1,468	177	1,263	7.15	153	1,057	6.90	24	206	8.70
Female.....	421	85	328	3.85	69	267	3.90	16	61	3.75
White.....	1,255	160	1,251	7.35	145	1,087	7.15	24	214	8.75
Nonwhite.....	634	129	664	5.15	112	571	5.10	17	93	5.45
Household status:										
Household heads.....	912	205	1,598	7.80	177	1,335	7.55	28	263	9.45
Other members.....	976	110	546	4.95	94	457	4.85	16	89	5.45
Less than 25 days.....	1,600	51	473	9.20	10	54	5.30	41	419	10.15
Migratory <sup>2</sup> .....	99	62	629	10.15	13	86	6.60	49	543	11.05
Nonmigratory.....	1,501	51	463	9.10	10	52	6.15	41	411	10.10
Male.....	978	64	675	10.50	10	59	5.90	54	616	11.40
Female.....	622	32	158	4.95	11	47	4.40	21	111	5.25
Household heads.....	486	95	1,126	11.85	10	64	6.40	85	1,062	12.50
Other members.....	1,114	32	189	5.80	10	50	4.80	22	139	6.25

<sup>1</sup> Rounded to the nearest 5 cents.

<sup>2</sup> Represents farm workers who left their homes temporarily to work in another county or counties.

Source: Department of Agriculture, Economic Research Service; *The Hired Farm Working Force of 1961*.

## Labor Force, Employment, and Earnings

## No. 320. FARM WORKERS COVERED BY OLD-AGE, SURVIVORS, AND DISABILITY INSURANCE—TAXABLE WAGES AND AVERAGE TAXABLE EARNINGS: 1955 to 1961

[Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Based on earnings reports filed under the farm coverage provisions of the Social Security Act]

ITEM		1955	1956	1957	1958	1959	1960	1961
<b>HIRED FARM WORKERS<sup>1</sup></b>								
Number	1,000	1,920	1,920	1,880	1,880	1,890	1,910	1,945
Taxable wages	mil. dol.	1,530	1,650	1,690	1,750	1,880	1,970	2,050
Average per worker		\$795	\$860	\$906	\$930	\$995	\$1,030	\$1,055
<b>SELF-EMPLOYED FARMERS<sup>2</sup></b>								
Number	1,000	2,350	2,570	2,430	2,410	2,230	2,160	2,150
Taxable self-employment income	mil. dol.	3,890	4,680	4,480	4,740	4,390	4,290	4,500
Average per farmer		\$1,655	\$1,820	\$1,845	\$1,965	\$1,970	\$1,990	\$2,100

<sup>1</sup> For 1955 and 1956, represents workers receiving at least \$100 cash farm wages; beginning 1957, at least \$150 wages, or employed 20 days or more on a time-paid basis. Maximum taxable wages: \$4,200 for 1955-1958, \$4,800 beginning 1959. Adjusted to eliminate duplication of workers reported by two or more employers.

<sup>2</sup> Represents farmers with net self-employment earnings of at least \$400.

Source: Department of Health, Education, and Welfare, Social Security Administration; *Social Security Farm Statistics, 1955-1959*, and records.

## No. 321. FARM WAGE RATES—GEOGRAPHIC DIVISIONS: 1950 to 1962

[Excludes Alaska and Hawaii. Annual average. Some wage rates in certain geographic divisions not obtained because seldom used; U.S. rates include estimates for these divisions]

GEOGRAPHIC DIVISION <sup>1</sup>	1950	1955	1960	1962	GEOGRAPHIC DIVISION <sup>1</sup>	1950	1955	1960	1962
Per month with board, room:					Per day with house:				
U.S.	\$99.00	\$123.00	\$149.00	\$155.00	U.S.	\$3.50	\$4.20	\$5.30	\$5.60
N.E.	95.00	127.00	154.00	161.00	S.A.	3.35	4.10	4.85	5.20
M.A.	93.00	120.00	144.00	148.00	E.S.C.	2.85	3.40	4.00	4.25
E.N.C.	94.00	121.00	142.00	148.00	W.S.C.	3.95	4.80	5.70	6.10
W.N.C.	101.00	124.00	145.00	154.00					
Mt.	124.00	151.00	173.00	180.00	Per day without board or room:				
Pac.	149.00	185.00	213.00	229.00	U.S.	4.50	5.30	6.60	6.90
Per month with house:					N.E.	6.40	8.30	9.70	10.10
U.S.	121.00	154.00	192.00	200.00	M.A.	6.20	7.70	8.90	9.10
N.E.	128.00	170.00	209.00	221.00	E.N.C.	6.00	7.60	8.80	9.00
M.A.	128.00	168.00	204.00	211.00	W.N.C.	6.70	8.00	9.30	9.70
E.N.C.	120.00	160.00	193.00	201.00	S.A.	3.95	4.80	5.60	5.90
W.N.C.	124.00	155.00	186.00	197.00	E.S.C.	3.40	4.00	4.75	4.95
Mt.	156.00	200.00	233.00	245.00	W.S.C.	4.55	5.40	6.30	6.70
Pac.	190.00	239.00	284.00	301.00	Mt.	6.60	7.80	9.10	9.60
Per week with board, room:					Per hour with house:				
U.S.	23.50	29.75	35.50	37.00	U.S.	.62	.74	.88	.92
N.E.	25.00	34.00	41.00	43.25	S.A.	.45	.56	.63	.67
M.A.	25.25	32.00	37.25	39.25	E.S.C.	.40	.47	.52	.55
Per week without board or room:					W.S.C.	.48	.58	.67	.70
U.S.	31.00	38.00	45.75	47.75	Pac.	.86	1.01	1.16	1.21
N.E.	36.25	48.25	57.00	59.75					
M.A.	34.75	44.25	51.75	54.00	Per hour without board or room:				
Per day with board and room:					U.S.	.69	.82	.97	1.01
U.S.	4.45	5.40	6.50	6.70	N.E.	.85	1.03	1.16	1.22
E.N.C.	4.80	6.10	7.00	7.20	M.A.	.81	.98	1.11	1.15
W.N.C.	5.30	6.60	7.50	7.90	E.N.C.	.83	1.01	1.08	1.12
					W.N.C.	.86	.99	1.08	1.14
					S.A.	.50	.62	.72	.76
					E.S.C.	.46	.54	.62	.66
					W.S.C.	.57	.68	.76	.81
					Mt.	.82	.95	1.06	1.12
					Pac.	.92	1.09	1.23	1.29

<sup>1</sup> See table 313 for States comprising each division.

Source: Department of Agriculture, Statistical Reporting Service; monthly report, *Farm Labor*.

**No. 322. INDEXES OF UNION WAGE RATES AND WEEKLY HOURS IN SELECTED TRADES: 1945 TO 1962**

[1957-59=100. Excludes Alaska and Hawaii. As of July 1, except that 1950 data for local transit operators are as of October 1. For 1945 to 1961, covers 53 cities in printing and 52 in the other trades; for 1962, 54 cities in printing and 53 in the other trades. Indexes of rates reflect changes in minimum hourly wage scales; indexes of hours reflect changes in the negotiated straight-time weekly hours. Year-to-year changes in union scales are based on comparable quotations for each individual trade weighted by membership for current year. See also *Historical Statistics, Colonial Times to 1957*, series D 642-653, for printing on 1948-49 base and other trades on 1947-49 base.]

TRADE	1945	1950	1955	1956	1957	1958	1959	1960	1961	1962
Building trades:										
Rate	44.4	68.0	86.8	90.8	95.5	99.8	104.7	109.0	113.3	117.5
Hours	101.1	100.2	100.1	100.1	100.1	100.0	100.0	99.9	99.8	99.7
Journeymen:										
Rate	45.4	68.8	87.1	91.0	95.6	99.9	104.5	108.6	112.8	117.1
Hours	101.2	100.2	100.1	100.1	100.1	100.0	100.0	99.9	99.8	99.7
Helpers and laborers:										
Rate	38.1	63.9	84.5	89.6	94.8	99.4	105.7	110.6	115.9	120.1
Hours	100.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Printing trades:										
Rate	44.2	75.1	91.0	93.4	96.7	100.0	103.3	106.3	109.7	112.9
Hours	106.2	101.3	100.7	100.6	100.3	100.0	99.7	99.6	99.4	99.3
Book and job:										
Rate	43.6	74.7	90.7	93.2	96.6	99.9	103.5	106.9	110.6	114.0
Hours	108.3	101.8	100.9	100.7	100.3	100.0	99.6	99.4	99.2	99.1
Newspaper:										
Rate	45.6	76.3	91.6	93.9	96.9	100.1	103.1	105.4	108.4	111.3
Hours	103.1	100.9	100.5	100.4	100.2	100.0	99.9	99.8	99.7	
Motortruck drivers and helpers:										
Rate	41.5	64.9	86.0	90.2	95.1	100.1	104.8	109.3	113.4	117.8
Hours	112.9	105.9	101.9	101.1	100.8	100.2	99.1	98.9	98.8	98.5
Local transit operators, rate	43.6	69.2	87.6	91.1	94.9	100.6	104.4	108.4	112.5	117.1

Source: Department of Labor, Bureau of Labor Statistics. Published annually in special pamphlets.

**No. 323. MONTHLY LABOR TURNOVER RATES PER 100 EMPLOYEES IN MANUFACTURING INDUSTRIES: 1957 TO 1962**

[Beginning 1959, includes Alaska and Hawaii. Data refer to wage and salary workers. Beginning 1959, transfers between establishments of the same firm are included in total accessions and total separations; therefore, rates for these items are not strictly comparable with prior data. For annual rates, see also *Historical Statistics, Colonial Times to 1957*, series D 779-784]

TYPE AND YEAR	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions: <sup>1</sup>													
1957	3.6	3.7	3.3	3.3	3.4	3.6	4.8	4.2	4.1	4.1	3.5	2.6	2.0
1959	4.2	3.8	3.7	4.1	4.1	4.2	5.4	4.4	5.2	5.1	3.8	3.4	3.6
1960	3.8	4.0	3.5	3.3	3.4	3.9	4.7	3.9	4.9	4.8	3.5	2.9	2.3
1961	4.1	3.7	3.2	4.0	4.0	4.2	5.0	4.4	5.3	4.7	4.3	3.3	2.6
1962	4.0	4.1	3.5	3.7	4.0	4.3	5.0	4.5	5.1	4.9	3.9	3.0	2.4
New hires:													
1957	2.2	2.3	2.0	2.0	2.1	2.3	3.2	2.8	2.7	2.5	2.1	1.3	0.8
1959	2.6	2.0	2.1	2.4	2.5	2.7	3.8	3.0	3.5	3.5	2.6	1.9	1.5
1960	2.2	2.2	2.2	2.0	2.0	2.3	3.0	2.4	2.9	2.8	2.1	1.5	1.0
1961	2.2	1.5	1.4	1.6	1.8	2.1	2.9	2.5	3.1	3.0	2.7	1.9	1.4
1962	2.5	2.2	2.0	2.2	2.4	2.8	3.4	2.9	3.2	3.1	2.5	1.8	1.2
Total separations: <sup>2</sup>													
1957	4.2	3.8	3.4	3.7	3.8	3.9	3.7	3.7	4.7	5.5	5.0	4.9	4.6
1959	4.1	3.7	3.1	3.3	3.6	3.5	3.6	4.0	4.6	5.3	5.5	4.7	3.9
1960	4.3	3.6	3.5	4.0	4.2	3.9	4.0	4.4	4.8	5.3	4.7	4.5	4.8
1961	4.0	4.7	3.9	3.9	3.4	3.5	3.6	4.1	4.1	5.1	4.1	4.0	4.0
1962	4.1	3.9	3.4	3.6	3.6	3.8	3.8	4.4	5.2	5.0	4.3	4.0	3.8
Quits:													
1957	1.6	1.5	1.4	1.5	1.6	1.6	1.6	1.7	2.3	2.7	1.6	1.1	0.8
1959	1.5	1.1	1.0	1.2	1.4	1.5	1.5	1.6	2.1	2.6	1.7	1.2	1.0
1960	1.3	1.2	1.2	1.2	1.4	1.3	1.4	1.4	1.8	2.3	1.3	0.9	0.7
1961	1.2	0.9	0.8	0.9	1.0	1.1	1.2	1.2	1.7	2.3	1.4	1.1	0.9
1962	1.4	1.1	1.1	1.2	1.3	1.5	1.5	1.4	2.1	2.4	1.5	1.1	0.8
Layoffs:													
1957	2.1	1.7	1.5	1.5	1.7	1.8	1.4	1.6	1.9	2.3	3.0	3.4	3.3
1959	2.0	2.1	1.5	1.6	1.6	1.4	1.4	1.8	1.8	2.0	3.2	2.9	2.4
1960	2.4	1.8	1.7	2.2	2.2	1.9	2.0	2.4	2.4	2.4	2.8	3.1	3.6
1961	2.2	3.2	2.6	2.3	1.9	1.8	1.7	2.3	1.7	2.0	2.0	2.2	2.6
1962	2.0	2.1	1.7	1.6	1.6	1.6	1.6	2.2	2.3	1.9	2.2	2.3	2.5

<sup>1</sup> Includes rehires.

<sup>2</sup> Includes discharges and military and miscellaneous separations.

**No. 324. INJURY-FREQUENCY RATES, 1950, 1955, AND 1958, AND SEVERITY MEASURES, 1958, FOR SELECTED INDUSTRIES**

[Excludes Alaska and Hawaii. Frequency rate is average number of disabling work injuries, and severity rate is average number of days disability, per one million employee-hours worked. See also *Historical Statistics, Colonial Times to 1957*, series D 785, for injury-frequency rates for manufacturing]

INDUSTRY GROUP AND INDUSTRY	INJURY-FREQUENCY RATES			SEVERITY MEASURES, 1958			
				Percent of injuries resulting in—		Average days of disability per case	Severity rate
	1950	1955	1958	Death	Permanent impairment		
<b>Manufacturing</b>							
Ordnance and accessories	14.7	12.1	10.9	0.4	6.8	92.8	66
Food and kindred products	6.2	6.1	3.6	—	7.1	92.9	41
Tobacco manufactures	18.9	18.6	18.5	0.2	4.5	95.3	53
Textile-mill products	6.8	6.6	6.8	—	6.6	93.4	34
Apparel and other finished textile prod.	11.0	9.7	9.0	0.2	6.1	93.7	54
Lumber and wood prod. (exc. furniture)	6.6	6.9	5.9	0.3	1.9	97.8	43
Furniture and fixtures	50.2	40.5	37.3	0.5	6.3	93.2	78
Paper and allied products	21.0	18.1	16.0	0.3	9.6	90.1	65
Printing, publishing, and allied indus.	16.1	12.9	11.4	0.3	6.9	92.8	62
Chemicals and allied products	8.2	9.1	8.7	0.2	4.2	95.6	41
Products of petroleum and coal	11.1	8.0	7.9	0.6	4.7	94.7	86
Rubber products	9.3	6.5	6.0	1.5	6.7	91.8	135
Leather and leather products	10.0	6.9	6.7	0.1	9.5	90.4	61
Stone, clay, and glass products	10.8	11.8	10.9	0.1	5.7	94.2	42
Primary metal industries	20.5	18.9	16.8	0.5	5.3	94.2	72
Fabricated metal products	14.8	12.2	9.9	0.8	8.8	90.4	100
Machinery (exc. electrical)	19.0	15.4	14.3	0.3	8.4	91.3	67
Electrical machinery	13.8	15.1	9.4	0.2	8.3	91.5	54
Transportation equipment	7.4	5.6	4.4	0.3	9.8	80.9	67
Instruments and related products	8.3	5.7	5.5	0.5	9.1	90.4	78
Contract construction	7.7	5.8	5.4	0.1	12.0	87.0	45
<b>Wholesale and retail trade</b>	<b>41.0</b>	<b>34.5</b>	<b>30.9</b>	<b>0.9</b>	<b>2.9</b>	<b>96.2</b>	<b>90</b>
<b>Services:</b>							
Hotels	n.a.	11.8	13.2	0.4	1.8	97.8	60
Laundries and dry cleaning	34.5	28.7	28.9	0.5	1.8	97.7	58
Automobile repair shops and garages	2.1	0.9	0.7	1.0	4.1	94.9	115
Radio broadcasting and television	13.8	8.2	6.5	1.7	4.9	93.4	161
Motion pictures and other amusements	2.5	5.6	4.4	n.a.	n.a.	n.a.	n.a.
Local transit systems	8.8	9.5	9.2	n.a.	n.a.	n.a.	n.a.
Electric and gas utilities	n.a.	14.2	15.0	0.5	1.7	97.8	60
Local fire protection	n.a.	16.4	16.7	0.9	1.7	97.4	91
Police	35.5	28.3	31.8	0.2	2.0	97.8	63
	32.4	27.8	33.1	0.6	0.8	98.6	71
n.a. Not available.							

<sup>1</sup> For 1950, comprises both publicly and privately operated utilities; beginning 1955, private only.

Source: Department of Labor, Bureau of Labor Statistics. Published periodically in *Monthly Labor Review*, and annual bulletin, *Work Injuries in the United States*.

# Work Injuries—Union Membership

249

## No. 325. DISABLING WORK INJURIES, BY MAJOR INDUSTRY GROUP: 1950 TO 1962

[In thousands. Beginning 1960, includes Alaska and Hawaii. Includes employees and self-employed. Beginning 1960, data not strictly comparable with earlier years due to minor revisions in definitions.]

YEAR	All industries <sup>1</sup>	Agriculture <sup>2</sup>	Mining and quarrying <sup>3</sup>	Construction <sup>4</sup>	Manufacturing <sup>5</sup>	Transportation <sup>6</sup>	Public utilities <sup>4</sup>	Trade, wholesale and retail <sup>4</sup>	All other <sup>1</sup>
Total:									
1950.....	1,952	340	72	205	426	177	24	335	373
1960.....	1,950	287	45	210	398	6 183	(6)	360	467
1961.....	1,930	284	43	209	375	6 179	(6)	360	480
1962 (prel.).....	1,990	281	44	210	403	6 189	(6)	373	490
Fatalities:									
1950.....	15.5	4.3	1.0	2.3	2.6	1.3	0.3	1.5	2.2
1960.....	13.8	3.3	0.8	2.4	1.7	6 1.6	(6)	1.2	2.8
1961.....	13.5	3.3	0.7	2.3	1.7	6 1.5	(6)	1.2	2.8
1962 (prel.).....	13.7	3.1	0.7	2.4	1.8	6 1.7	(6)	1.2	2.8
Permanent impairments:									
1950.....	84.9	(7)	(7)	8.5	21.7	(7)	0.6	8.1	(7)
1960.....	82.2	(7)	(7)	5.8	25.5	(7)	(7)	8.4	(7)
1961.....	80.5	(7)	(7)	5.8	24.0	(7)	(7)	8.4	(7)
1962 (prel.).....	83.3	(7)	(7)	5.8	25.7	(7)	(7)	8.7	(7)
Temporary-total disabilities:									
1950.....	1,852	(7)	(7)	194	402	(7)	23	325	(7)
1960.....	1,854	(7)	(7)	202	371	(7)	(7)	350	(7)
1961.....	1,836	(7)	(7)	201	349	(7)	(7)	350	(7)
1962 (prel.).....	1,893	(7)	(7)	202	376	(7)	(7)	363	(7)

<sup>1</sup> Excludes domestic service. <sup>2</sup> Based on fragmentary data. <sup>3</sup> Based largely on Bureau of Mines data.

<sup>4</sup> Based on small sample surveys. <sup>5</sup> Based on comprehensive survey.

<sup>6</sup> Public utilities included in transportation. <sup>7</sup> Included in totals for all industries.

Source: Department of Labor, Bureau of Labor Statistics; published periodically in *Monthly Labor Review* and annual bulletin, *Work Injuries in the United States*.

## No. 326. ESTIMATED MEMBERSHIP OF AFL-CIO UNIONS, BY STATES: 1960

[In thousands. Excludes Hawaii. Data reported by State AFL-CIO organizations]

STATE	Member-ship	STATE	Member-ship
United States.....	13,878	Montana.....	50
Alabama.....	185	Nebraska.....	65
Alaska.....	22	Nevada.....	16
Arizona.....	80	New Hampshire.....	50
Arkansas.....	72	New Jersey.....	1,500
California.....	1,350	New Mexico.....	17
Colorado.....	90	New York.....	2,000
Connecticut.....	200	North Carolina.....	80
Delaware.....	28	North Dakota.....	18
Florida.....	150	Ohio.....	1,000
Georgia.....	115	Oklahoma.....	50
Idaho.....	20	Oregon.....	160
Illinois.....	1,200	Pennsylvania.....	1,500
Indiana.....	350	Rhode Island.....	50
Iowa.....	135	South Carolina.....	35
Kansas.....	100	South Dakota.....	17
Kentucky.....	132	Tennessee.....	140
Louisiana.....	130	Texas.....	375
Maine.....	68	Utah.....	45
Maryland-District of Columbia.....	300	Vermont.....	8
Massachusetts.....	600	Virginia.....	95
Michigan.....	700	Washington.....	350
Minnesota.....	250	West Virginia.....	70
Mississippi.....	45	Wisconsin.....	400
Missouri.....	450	Wyoming.....	15

<sup>1</sup> Includes replies received from New Jersey State Federation of Labor (formerly AFL) and New Jersey State Industrial Union Council (formerly CIO).

Source: Department of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1961*. (Bulletin No. 1320.)

## Labor Force, Employment, and Earnings

## No. 327. NATIONAL AND INTERNATIONAL UNIONS—MEMBERSHIP: 1940 TO 1960

[Includes Alaska and Hawaii. Estimates based on average number of dues-paying members of unions with headquarters in the U.S. Certain unions did not report as members persons not required to pay dues, such as apprentices and workers who were retired, unemployed, in the Armed Forces, or involved in work stoppages. Excludes membership in noninterstate independent or unaffiliated unions. See also *Historical Statistics, Colonial Times to 1957*, series D 741 and 745.]

ITEM	1940	1950	1955	1956	1957	1958	1959	1960
Unions affiliated with AFL-CIO.....	147	137	139	137	139	137	135	134
Membership, total <sup>1</sup> .....	1,000	8,944	15,000	17,749	18,477	18,431	18,081	18,117
Percent of total labor force <sup>2</sup> .....		15.5	22.0	24.4	24.8	24.6	23.9	23.3
Percent of employment in nonagricultural establishments <sup>2</sup> .....		26.9	31.5	33.2	33.4	32.8	33.1	31.4
AFL-CIO.....	1,000	7,872	12,143	16,062	16,904	16,954	14,993	15,124
Independent or unaffiliated unions do.....		1,072	2,600	1,688	1,573	1,476	3,088	3,044
								3,045

<sup>1</sup> Includes Canadian members of labor unions with headquarters in U.S. (1,068,000 in 1960).

<sup>2</sup> Percentages calculated on union membership excluding Canadian membership.

Source: Department of Labor, Bureau of Labor Statistics; *Handbook of Labor Statistics, Directory of National and International Labor Unions in the United States*, and records.

## No. 328. NATIONAL AND INTERNATIONAL UNIONS—NUMBER AND MEMBERSHIP, BY SIZE-CLASS: 1960

[Includes Alaska and Hawaii. Data are for unions with headquarters in the U.S. See headnote, table 327]

MEMBERSHIP SIZE-CLASS	NUMBER OF UNIONS			Total mem-ber-ship <sup>1</sup> (1,000)	MEMBERSHIP SIZE-CLASS	NUMBER OF UNIONS			Total mem-ber-ship <sup>1</sup> (1,000)
	Total	AFL-CIO	Unaf-fil-i-ated			Total	AFL-CIO	Unaf-fil-i-ated	
Total.....	184	134	50	18,037	50,000 to 99,999.....	31	26	5	2,080
Under 1,000.....	13	6	7	6	100,000 to 199,999.....	22	20	2	3,161
1,000 to 4,999.....	34	15	19	90	200,000 to 299,999.....	7	7	-----	1,839
5,000 to 9,999.....	16	10	6	122	300,000 to 399,999.....	4	4	-----	1,352
10,000 to 24,999.....	24	21	3	396	400,000 to 499,999.....	3	3	-----	1,332
25,000 to 49,999.....	23	17	6	817	500,000 to 999,999.....	4	3	1	3,069
					1,000,000 and over.....	3	2	1	3,773

<sup>1</sup> Excludes membership of federal labor unions and local industrial unions.

Source: Department of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1961*. (Bulletin No. 1320.)

## No. 329. NATIONAL AND INTERNATIONAL UNIONS REPORTING 100,000 MEMBERS OR MORE: 1960

[In thousands. Data are for unions with headquarters in the U.S. All unions not identified as independent (Ind.) are affiliated with the AFL-CIO]

UNION	Members	UNION	Members	UNION	Members
Teamsters (Ind.).....	1,484	Electrical (IUE).....	288	Iron workers.....	148
Steel.....	1,152	Building service.....	272	Retail, wholesale.....	143
Automobile.....	1,136	Musicians.....	267	Boilermakers.....	140
Machinists.....	898	Communications.....	260	Papermakers.....	140
Carpenters.....	800	Plumbing.....	251	Letter carriers.....	138
Electrical (IBEW).....	771	State and county.....	210	Transport workers.....	135
Mine (Ind.).....	600	Painters.....	193	Street, electric rail-way.....	132
Garment, ladies'.....	447	Textile workers (TWUA).....	192	Railway carmen.....	125
Hotel.....	443	Oil.....	174	Printing pressmen.....	114
Hod carriers.....	442	Pulp.....	171	Typographical.....	105
Clothing.....	377	Rubber.....	170	Packinghouse.....	103
Retail clerks.....	342	Maintenance of way.....	164	Sheet metal workers.....	100
Meat cutters.....	333	Electrical (UE) (Ind.).....	160	Mine, mill (Ind.).....	100
Railway and steam-ship clerks.....	300	Railroad trainmen.....	159		
Engineers, operating.....	291	Bricklayers.....	155		

Source: Department of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1961*. (Bulletin No. 1320.)

# Work Stoppages

251

## No. 330. WORK STOPPAGES: 1940 TO 1962

(Beginning 1959, includes Alaska, and 1960, Hawaii. Excludes work stoppages involving fewer than 6 workers or lasting less than 1 day. Information obtained directly from companies and unions involved as well as from various Government labor boards, conciliation services, and other neutral parties. See also *Historical Statistics, Colonial Times to 1957*, series D 764-769 and D 774)

YEAR	WORK STOPPAGES BEGINNING IN YEAR		WORKERS INVOLVED		MAN-DAYS IDLE DURING YEAR		
	Number	Average duration (calendar days)	Number (1,000) <sup>1</sup>	Percent of total employed <sup>2</sup>	Number (1,000)	Percent of estimated working time <sup>3</sup>	Per worker involved
1940	2,508	20.9	577	2.3	6,700	0.10	11.6
1945	4,750	9.9	3,470	12.2	38,000	0.47	11.0
1950	4,843	19.2	2,410	6.9	38,800	0.44	16.1
1951	4,737	17.4	2,220	5.5	22,900	0.28	10.3
1952	5,117	19.6	3,540	8.8	59,100	0.57	16.7
1953	5,091	20.3	2,400	5.6	28,300	0.26	11.8
1954	3,468	22.5	1,530	3.7	22,600	0.21	14.7
1955	4,320	18.5	2,650	6.2	28,200	0.26	10.7
1956	3,825	18.9	1,900	4.3	33,100	0.29	17.4
1957	3,673	19.2	1,390	3.1	16,500	0.14	11.4
1958	3,604	19.7	2,060	4.8	23,900	0.22	11.6
1959	3,708	24.6	1,880	4.3	69,000	0.61	36.7
1960	3,333	23.4	1,320	3.0	19,100	0.17	14.5
1961	3,367	23.7	1,450	3.2	16,300	0.14	11.2
1962	3,614	24.6	1,230	2.7	18,600	0.16	15.0

<sup>1</sup> Workers counted more than once if involved in more than 1 stoppage during year.

<sup>2</sup> Total employed workers for 1940-1950 refers to all workers except those in occupations and professions in which there is little if any union organization or in which stoppages rarely if ever occur. In 1951, concept was changed to coincide with the Bureau of Labor Statistics figures for nonagricultural employment, excluding Government but including workers in all occupational groups. Tests show that percentage of total idleness computed on basis of these new figures usually differs by less than one-tenth of a point while percentage of workers idle differs by about 0.5 or 0.6 of a point.

<sup>3</sup> Estimated working time computed by multiplying average number of employed workers (see footnote 2) by number of days worked by most employees.

Source: Department of Labor, Bureau of Labor Statistics; June (1961, 1962, and 1963) issues of *Monthly Labor Review* and annual bulletin, *Analysis of Work Stoppages*.

## No. 331. WORK STOPPAGES—MAJOR ISSUES AND DURATION: 1960 TO 1962

(Includes Alaska and Hawaii. See headnote, table 330. Issues data based on stoppages beginning in year; duration data on stoppages ending in year. See also *Historical Statistics, Colonial Times to 1957*, series D 770-778, for related but not comparable data.)

MAJOR ISSUES AND DURATION	WORK STOPPAGES			WORKERS INVOLVED <sup>1</sup> (1,000)			MAN-DAYS IDLE DURING YEAR (1,000)		
	1960	1961	1962	1960	1961	1962	1960	1961	1962
<b>MAJOR ISSUES</b>									
All issues <sup>2</sup>	3,333	3,367	3,614	1,320	1,450	1,230	19,100	16,300	18,600
General wage changes		1,359	1,529		483	612		6,520	12,000
Supplementary benefits		145	109		33	29		458	481
Wage adjustments	1,502	154	180	568	47	82	10,500	823	704
Hours of work		6	6		2	2		5	46
Other contractual matters		26	34		3	8		33	40
Union organization and security	538	518	582	246	92	106	4,883	2,390	1,780
Job security		243	220		183	126		1,800	1,570
Plant administration	800	462	516	463	503	198	3,460	3,630	1,450
Other working conditions		48	44		15	13		333	181
Interunion or intraunion matters	310	364	349	31	88	53	140	273	287
Not reported	93	42	45	9	4	6	77	14	17
<b>DURATION</b>									
All stoppages	3,342	3,324	3,632	1,370	1,440	1,150	23,200	15,700	16,900
1 day	410	388	372	123	152	134	123	152	134
2 and 3 days	515	558	540	200	136	182	452	283	397
4 days to less than 1 week	468	454	525	191	106	111	592	355	371
1 week to less than 1/2 month	711	642	774	325	289	258	2,110	1,820	1,670
1/2 to less than 1 month	513	526	559	211	525	169	2,700	5,060	2,300
1 to less than 2 months	395	416	470	125	165	187	3,070	4,000	5,060
2 to less than 3 months	129	149	168	43	44	72	1,930	1,950	3,190
3 months or more	201	191	224	146	25	38	12,200	2,040	3,770

<sup>1</sup> See footnote 1, table 330. <sup>2</sup> 1960 data not strictly comparable with later years.

Source: Department of Labor, Bureau of Labor Statistics; June (1961, 1962, and 1963) issues of *Monthly Labor Review* and annual bulletin, *Analysis of Work Stoppages*.

## Labor Force, Employment, and Earnings

No. 332. WORK STOPPAGES, BY INDUSTRY GROUPS: 1950 TO 1962  
 (Beginning 1950, includes Alaska, and 1960, Hawaii. See headnote, table 330. Work stoppages affecting more than 1 industry are counted as separate stoppages in each industry affected, and workers involved and man-days idle are allocated among the appropriate industries.)

INDUSTRY GROUP	WORK STOPPAGES BEGINNING IN—										WORKERS INVOLVED <sup>1</sup> (1,000)										MAN-DAYS IDLE DURING YEAR (1,000)																											
	1950					1955					1960					1961					1950			1955			1959			1960			1961			1962												
	All industries	4,843	4,320	3,708	3,333	3,367	3,614	2,410	2,650	1,880	1,320	1,450	1,230	38,800	28,200	69,000	19,100	16,300	18,600	All industries	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
MANUFACTURING																																																
Ordnance and accessories	2	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13																	
Food and kindred products	185	169	169	154	177	206	57	40	80	55	66	80	55	66	80	55	66	80	55	66	80	55	66	80	55	66	80	55	66	80	55	66																
Tobacco manufactures	5	3	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3															
Textile, mill products	147	96	70	87	35	30	48	24	15	19	12	15	19	12	15	19	12	15	19	12	15	19	12	15	19	12	15	19	12	15	19																	
Apparel and other finished products, etc.	187	139	122	87	112	95	18	15	19	12	24	12	14	12	15	13	13	12	15	13	12	15	13	12	15	13	12	15	13	12	15																	
Lumber and wood products (exc. furniture)	110	81	58	39	75	72	24	12	16	16	26	16	19	16	16	19	16	19	16	19	16	19	16	19	16	19	16	19	16	19	16																	
Furniture and fixtures	106	121	101	81	70	61	26	16	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19																	
Paper and allied products	76	67	59	52	62	63	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14	19	14																
Printing, publishing, and allied industries	76	58	53	53	53	53	10	8	24	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																
Chemicals and allied products	54	29	38	38	38	38	10	8	24	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																
Products of petroleum and coal	96	105	97	91	94	103	39	40	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16																
Rubber and misc. plastic products	22	18	18	12	17	10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16																
Leather and leather products	136	105	62	65	43	136	124	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77																
Stone, clay, and glass products	84	50	38	32	25	32	25	25	40	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6														
Primary metal industries (exc. ordnance, machinery, and transportation equip.)	339	279	236	158	126	176	142	555	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575												
Machinery, and transportation equip.	278	282	276	195	191	220	86	131	100	44	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97															
Machinery (except electrical)	317	306	217	144	176	196	224	230	132	202	48	97	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67															
Electrical machinery	168	147	96	102	114	90	132	100	100	98	440	77	207	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189	189																
Transportation equipment	171	200	108	122	122	122	122	122	122	122	368	440	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77																
Professional, scientific, and controlling instruments; photographic and optical goods; watches and clocks	26	30	26	29	19	38	23	34	11	34	14	11	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6															
Miscellaneous manufacturing industries	96	99	68	54	66	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
NONMANUFACTURING																																																
Agriculture, forestry, and fisheries	12	11	10	81	31	16	21	3	14	120	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49															
Mining	508	343	187	154	154	154	154	154	154	154	913	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237																
Construction	611	733	771	773	824	308	364	70	52	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13															
Wholesale and retail trade	381	409	311	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290												
Finance, insurance, and real estate	31	8	11	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4													
Transportation, communication, etc.	386	275	233	266	243	103	138	138	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121											
Services—personal, business, and other	182	121	121	128	138	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103											
Government—administration, protection and sanitation	28	17	25	36	28	28	28	4	1	2	29	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7													

<sup>1</sup> Workers counted more than once if involved in more than 1 stoppage during year.

<sup>2</sup> Less than 500.

Source: Department of Labor, Bureau of Labor Statistics; published in May (1951 and 1956) and June (1960-1963) issues of *Monthly Labor Review* and annual bulletin, *An Analysis of Work Stoppages*.

# Work Stoppages

253

## No. 333. WORK STOPPAGES, BY STATES: 1960 TO 1962

[See headnote, table 330. Work stoppages affecting more than 1 State are counted as separate stoppages in each State affected, and workers involved and man-days idle are allocated among the appropriate States]

STATE	WORK STOPPAGES BEGINNING IN—			WORKERS INVOLVED <sup>1</sup> (1,000)			MAN-DAYS IDLE DURING YEAR					
							Number (1,000)			Percent of estimated work- ing time <sup>2</sup>		
	1960	1961	1962	1960	1961	1962	1960	1961	1962	1960	1961	1962
United States.....	3,333	3,367	3,614	1,320	1,450	1,230	19,100	16,300	18,600	0.17	0.14	0.16
New England:												
Maine.....	11	6	12	1	1	1	20	5	11	0.03	0.01	0.02
New Hampshire.....	6	3	15	1	(3)	3	4	2	16	0.01	(4)	0.04
Vermont.....	7	10	13	1	1	2	17	34	90	0.07	0.15	0.38
Massachusetts.....	120	134	153	49	45	23	1,690	412	442	0.40	0.10	0.10
Rhode Island.....	18	23	25	3	2	4	36	17	46	0.06	0.03	0.07
Connecticut.....	53	56	68	43	18	26	1,110	372	450	0.53	0.18	0.21
Middle Atlantic:												
New York.....	427	421	464	101	180	214	2,720	1,860	2,410	0.20	0.14	0.18
New Jersey.....	205	284	288	68	82	58	765	762	646	0.17	0.17	0.14
Pennsylvania.....	398	393	367	180	112	118	2,040	1,730	1,390	0.25	0.21	0.17
East North Central:												
Ohio.....	303	283	298	101	127	75	931	1,420	1,110	0.13	0.21	0.16
Indiana.....	123	107	136	60	61	47	687	510	821	0.22	0.17	0.26
Illinois.....	197	219	240	63	92	64	753	869	995	0.10	0.11	0.13
Michigan.....	145	180	196	65	239	81	722	1,820	1,440	0.14	0.38	0.28
Wisconsin.....	63	54	64	19	19	22	382	285	289	0.15	0.11	0.11
West North Central:												
Minnesota.....	37	46	47	29	21	10	347	452	259	0.17	0.22	0.12
Iowa.....	41	47	48	15	13	16	224	158	145	0.16	0.11	0.10
Missouri.....	74	88	95	62	35	26	1,220	470	361	0.41	0.16	0.12
North Dakota.....	3	4	7	1	(3)	1	5	4	18	(4)	0.02	0.07
South Dakota.....	8	14	9	1	3	3	6	7	19	0.02	0.03	0.07
Nebraska.....	39	26	25	3	6	4	57	70	57	0.07	0.09	0.07
Kansas.....	25	39	14	8	8	1	439	65	47	0.39	0.06	0.04
South Atlantic:												
Delaware.....	22	23	12	0	5	4	57	79	47	0.16	0.23	0.14
Maryland.....	39	46	42	19	14	15	479	185	151	0.25	0.10	0.07
District of Columbia.....	12	10	5	4	5	(3)	27	46	2	0.04	0.06	(4)
Virginia.....	31	40	37	9	13	10	121	112	110	0.06	0.05	0.05
West Virginia.....	82	81	84	15	13	17	104	197	201	0.10	0.21	0.21
North Carolina.....	12	14	17	2	1	6	10	6	97	(4)	(4)	0.04
South Carolina.....	9	8	10	3	1	2	10	13	13	0.01	0.01	0.01
Georgia.....	28	30	21	8	18	5	106	241	193	0.05	0.11	0.08
Florida.....	98	66	48	26	24	14	311	183	456	0.11	0.06	0.16
East South Central:												
Kentucky.....	54	67	60	15	16	27	184	119	236	0.13	0.09	0.17
Tennessee.....	79	58	49	22	11	9	273	202	208	0.14	0.10	0.10
Alabama.....	60	65	50	25	13	20	477	167	186	0.31	0.11	0.12
Mississippi.....	18	15	7	2	4	2	19	47	16	0.02	0.06	0.02
West South Central:												
Arkansas.....	20	30	22	3	3	4	24	43	42	0.03	0.06	0.05
Louisiana.....	37	34	45	6	6	20	115	207	459	0.07	0.13	0.28
Oklahoma.....	28	29	18	8	9	2	49	92	51	0.04	0.08	0.04
Texas.....	71	82	86	25	41	23	339	798	468	0.06	0.15	0.08
Mountain:												
Montana.....	15	16	21	1	2	6	174	38	169	0.53	0.12	0.51
Idaho.....	20	18	22	4	2	3	389	20	48	1.25	0.06	0.15
Wyoming.....	20	16	9	9	2	1	50	18	8	0.26	0.09	0.04
Colorado.....	38	49	33	11	17	7	155	220	273	0.15	0.21	0.25
New Mexico.....	17	19	17	2	4	6	48	53	175	0.11	0.12	0.39
Arizona.....	13	13	26	3	3	17	135	32	173	0.20	0.05	0.24
Utah.....	17	13	19	3	9	5	121	128	21	0.24	0.24	0.04
Nevada.....	6	9	31	2	3	4	22	28	50	0.10	0.13	0.19
Pacific:												
Washington.....	46	82	85	6	15	42	163	251	727	0.10	0.15	0.42
Oregon.....	19	25	37	3	13	17	112	229	177	0.11	0.22	0.16
California.....	292	269	263	104	99	143	855	1,110	2,660	0.08	0.11	0.25
Alaska.....	19	10	10	1	3	1	7	41	10	0.08	0.49	0.12
Hawaii.....	32	33	34	5	22	4	16	47	71	n.a.	n.a.	0.19

n.e. Not available.

<sup>1</sup> See footnote 1, table 330. <sup>2</sup> See footnote 3, table 330.

<sup>a</sup> Less than 500. <sup>b</sup> Less than 0.005 percent.

Source: Department of Labor, Bureau of Labor Statistics; annual bulletin, *Analysis of Work Stoppages*, release, *Work Stoppages by State*, and *Monthly Labor Review*.